

FIG. 1

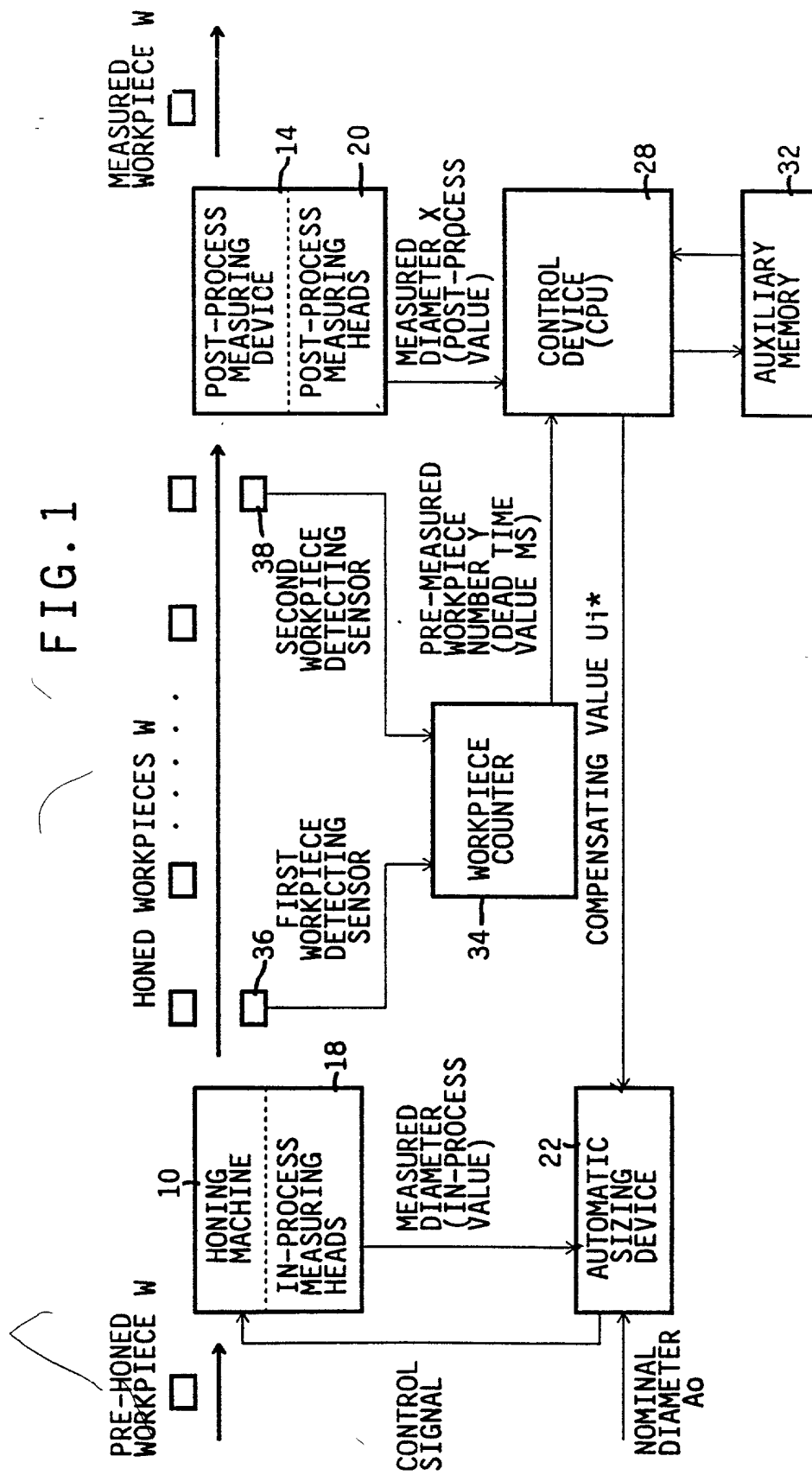


FIG. 2

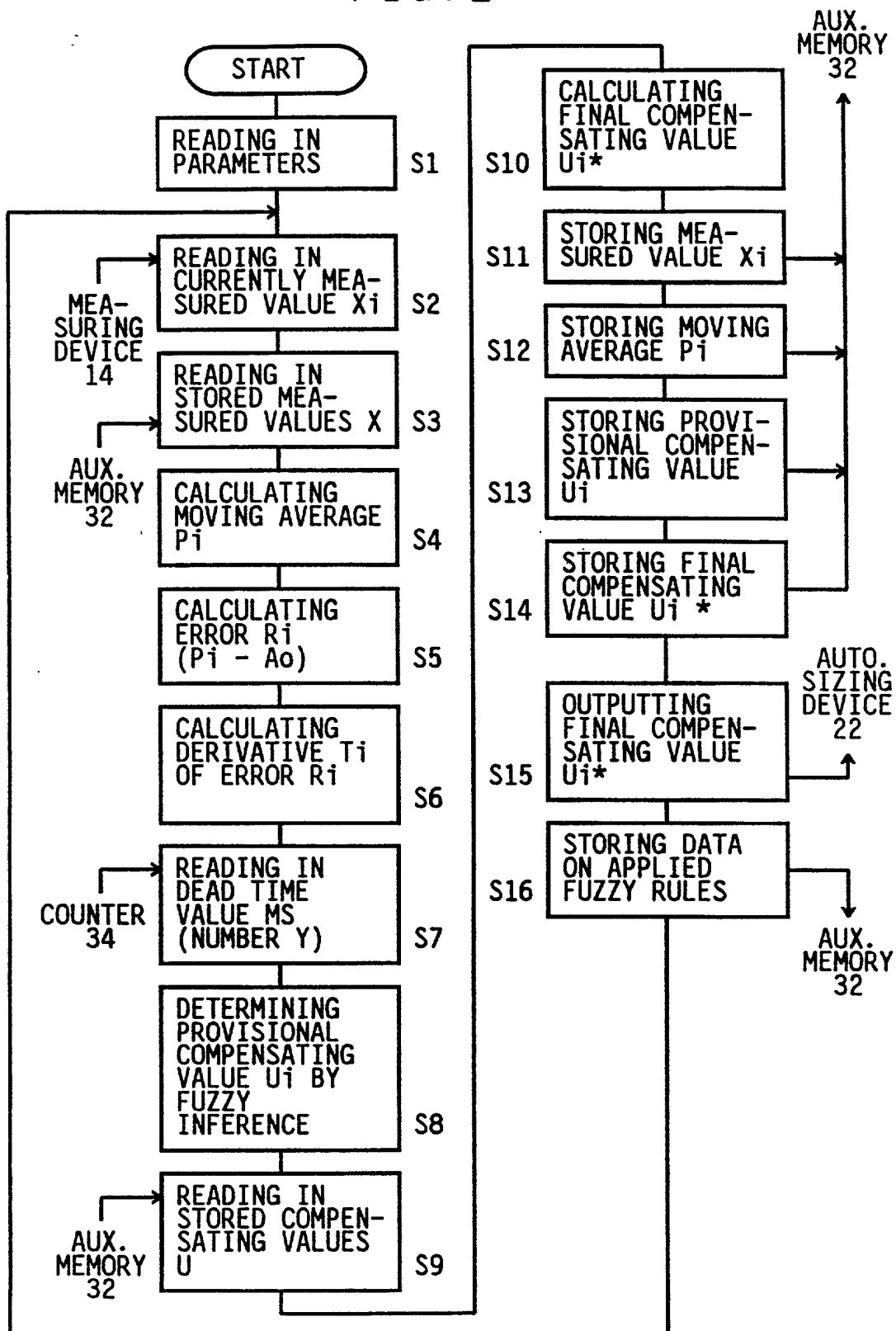


FIG. 3

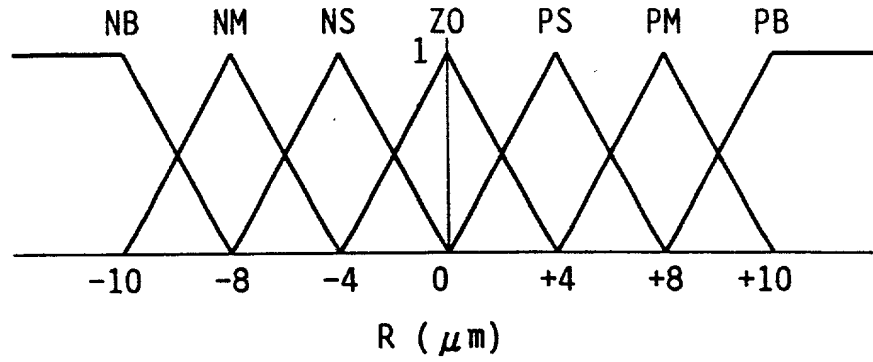


FIG. 4

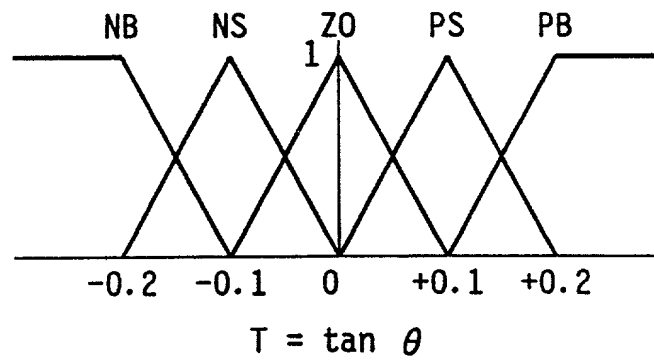


FIG. 5

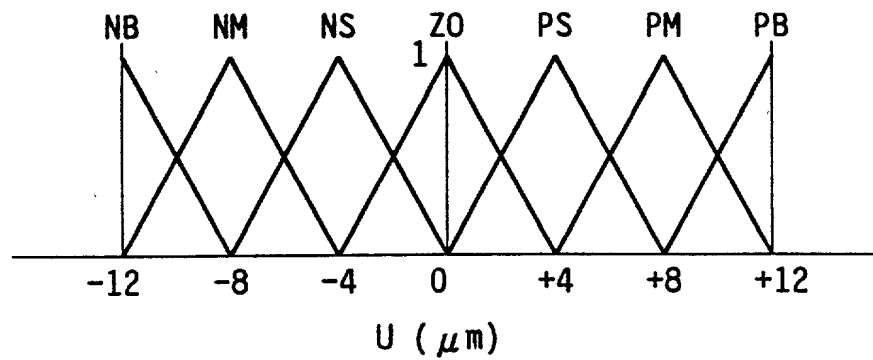


FIG. 6

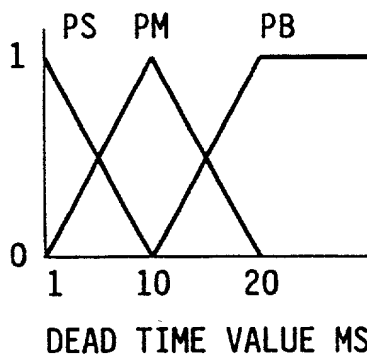


FIG. 7

DATA STORED IN AUXILIARY MEMORY 32				
MEASURED VALUES	MOVING AVERAGES	PROVI-SIONAL COMPEN-SATING VALUES	FINAL COMPEN-SATING VALUES	APPLIED FUZZY RULES
X0	P0	U0	U0*	.
X1	P1	U1	U1*	.
X2	P2	U2	U2*	.
.
.
Xi	Pi	Ui	Ui*	.
.
.

FIG. 18

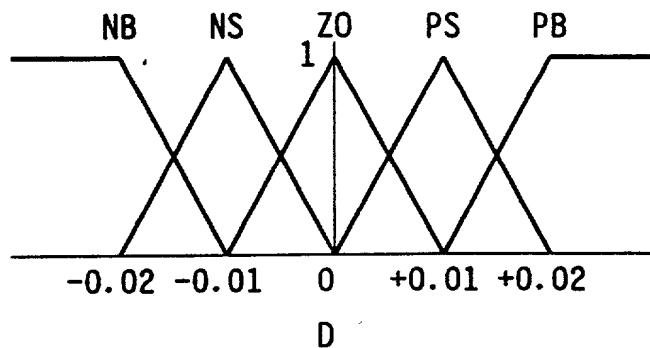


FIG. 8

AVERAGE = -7.894
ERROR = 2.396

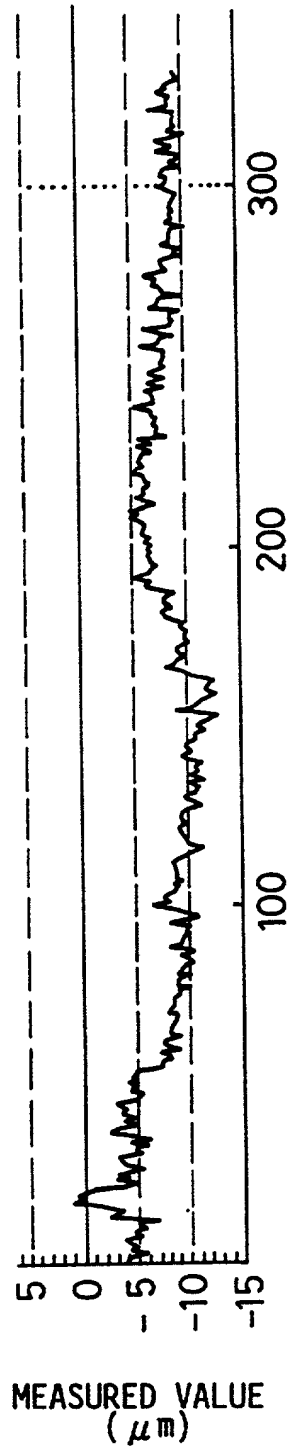
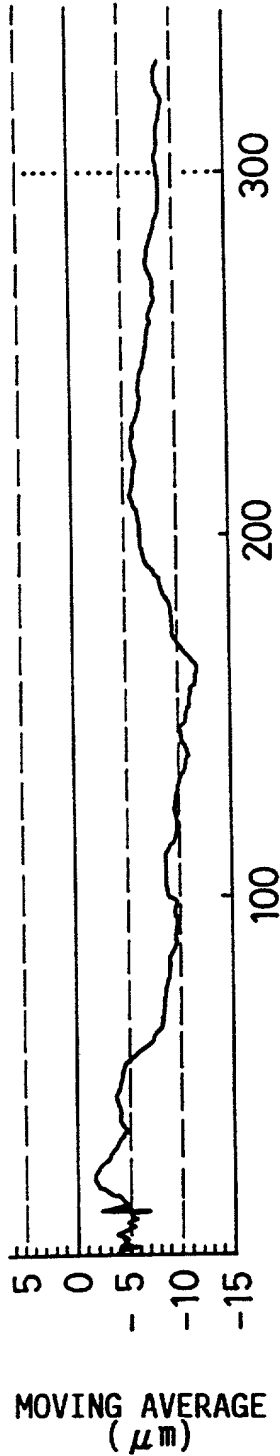


FIG. 9



NUMBER OF MEASURED WORKPIECES

FIG. 10

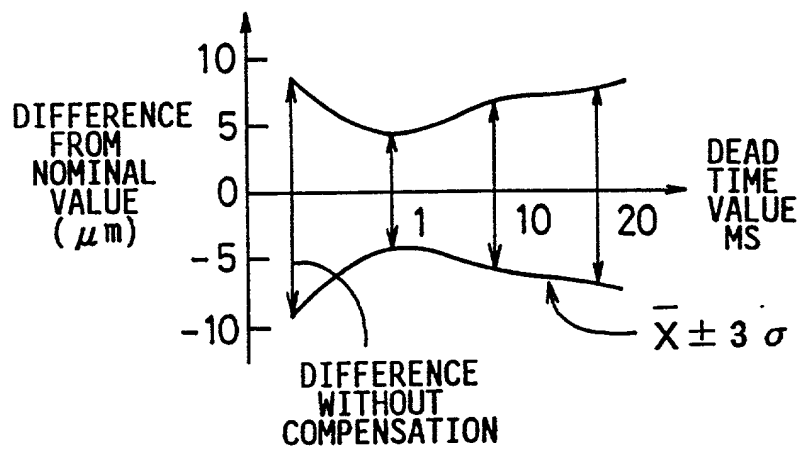


FIG. 11

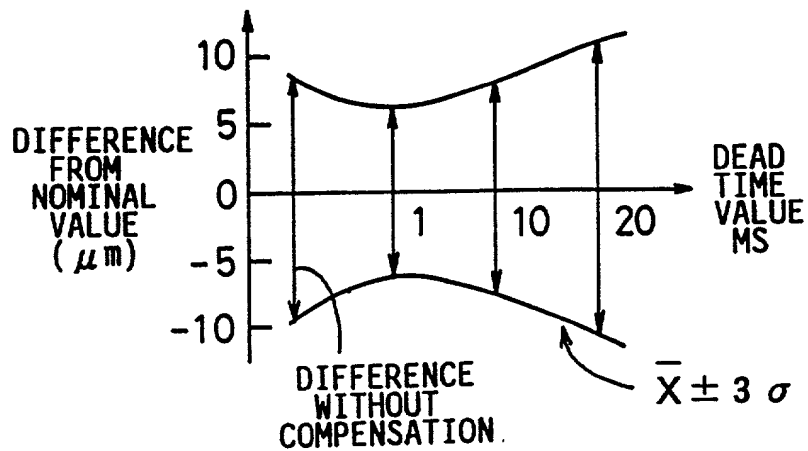


FIG. 12

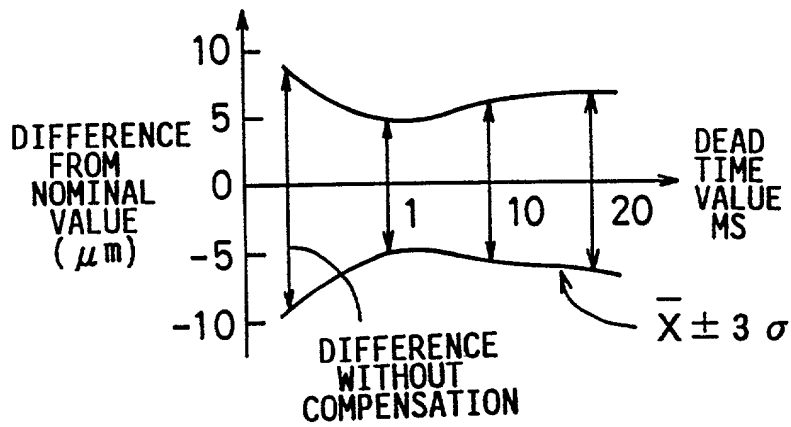


FIG. 13

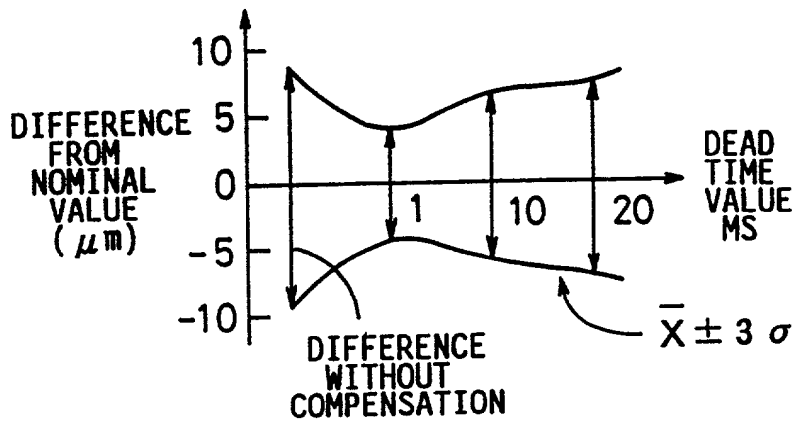


FIG. 14

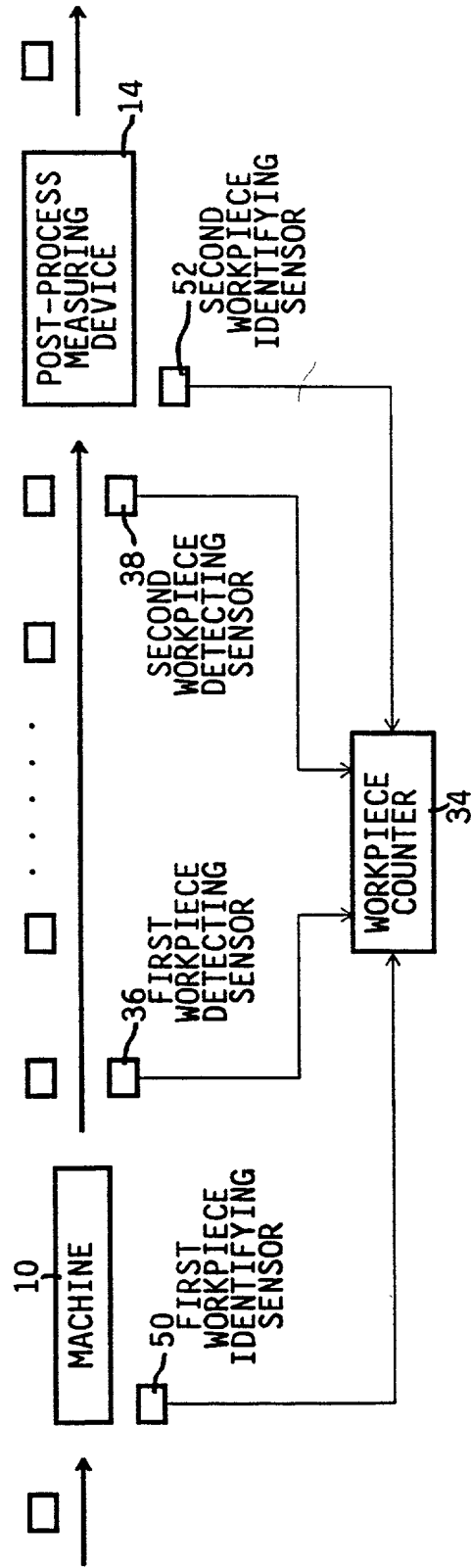


FIG. 15

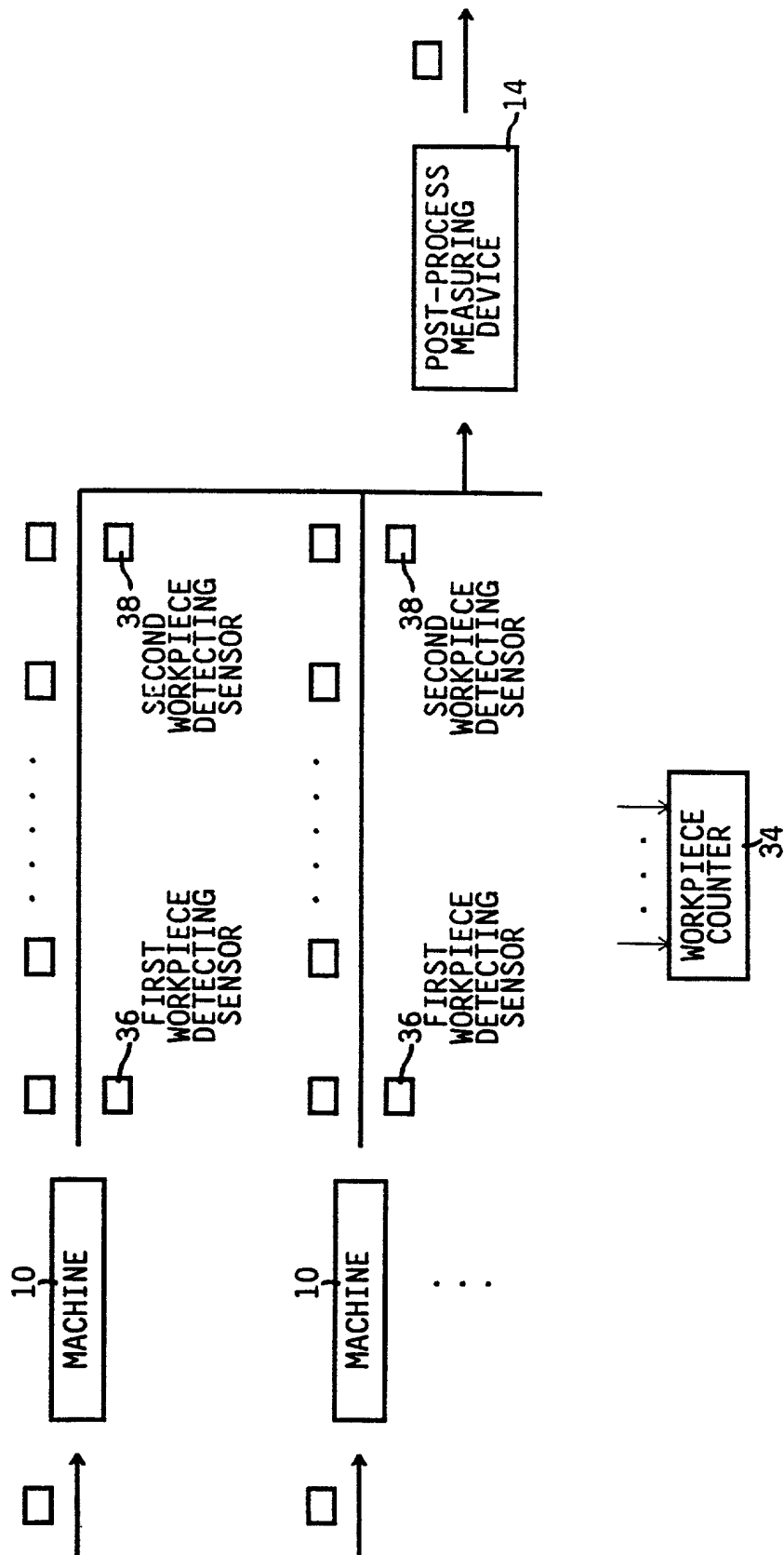
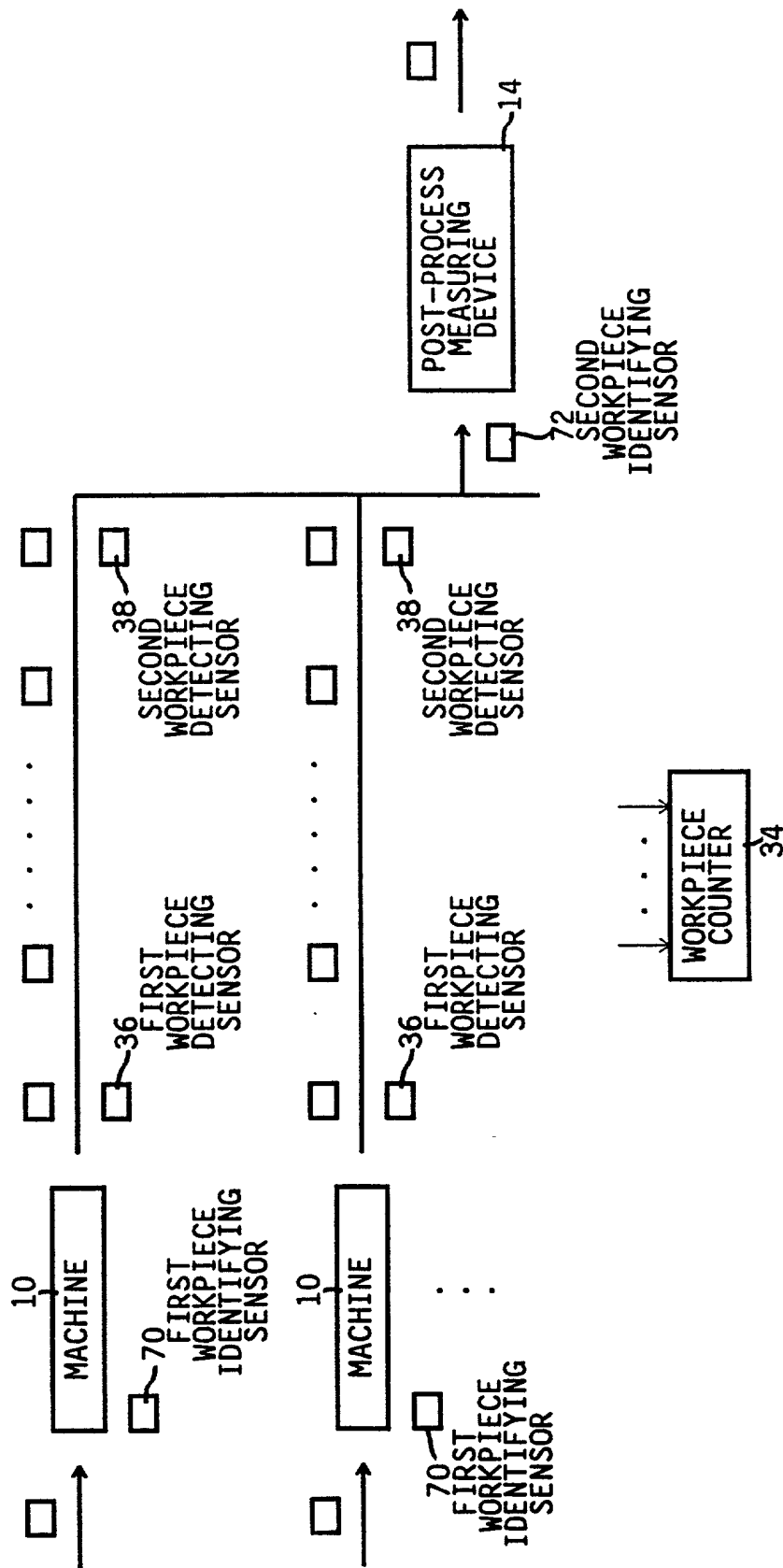


FIG. 16



THE

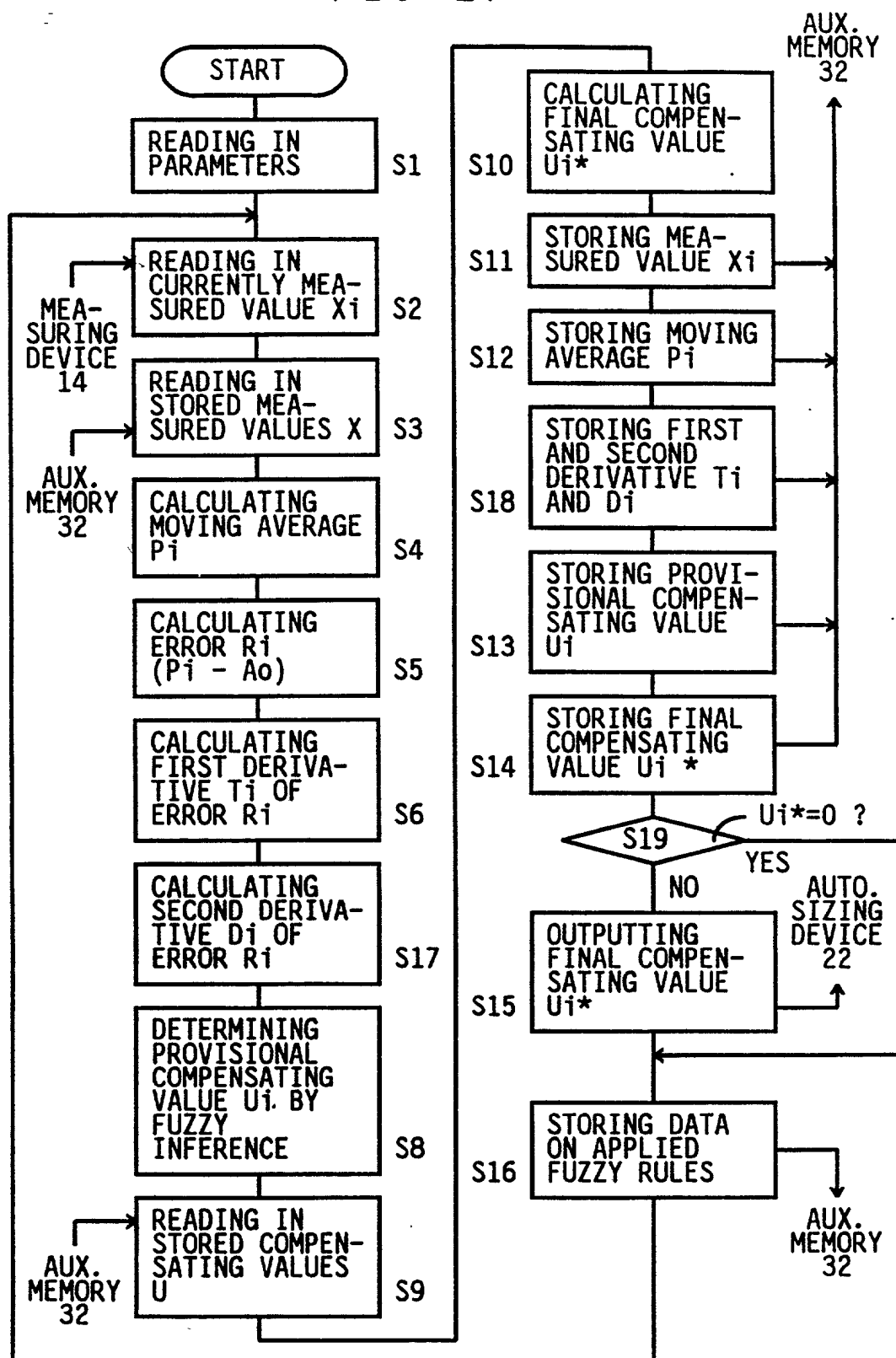


FIG. 19

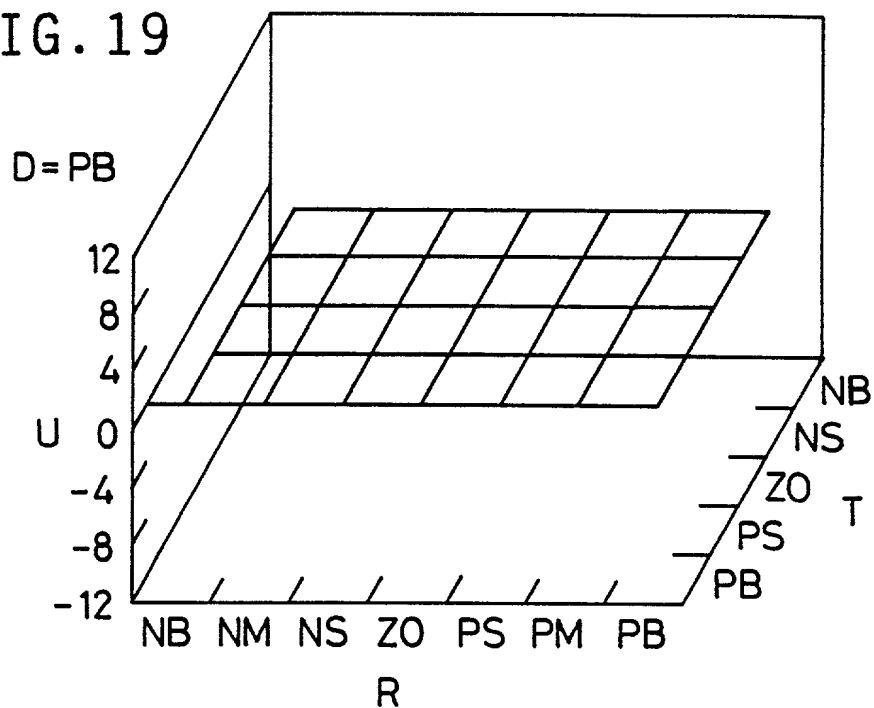


FIG. 20

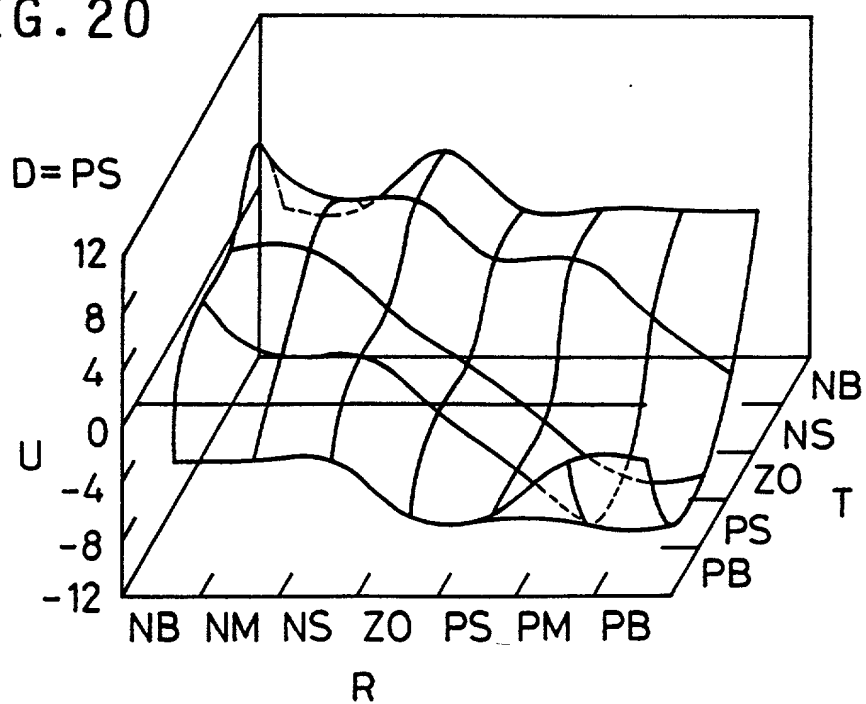


FIG. 21

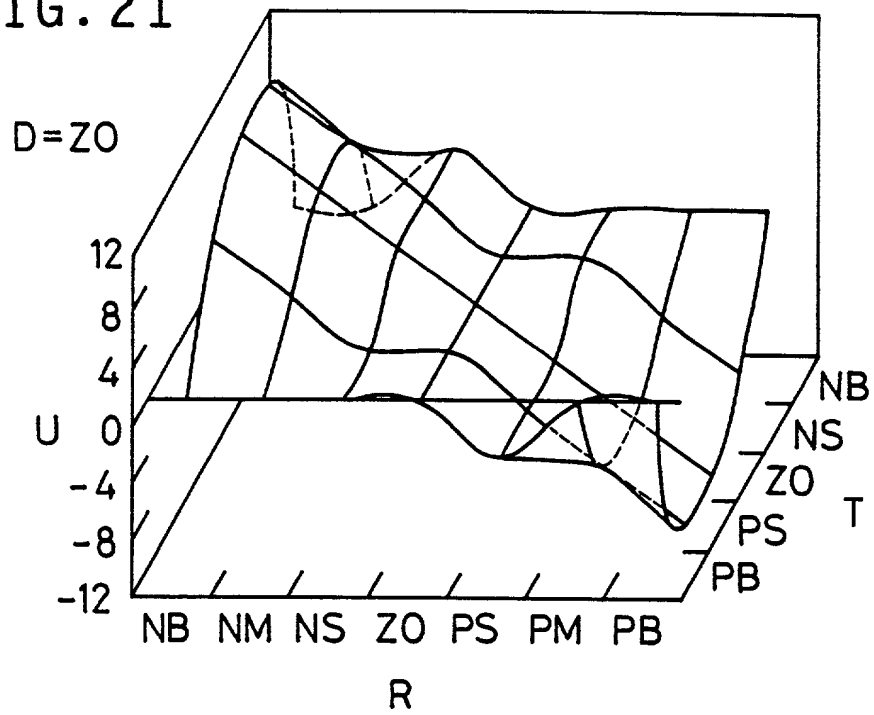
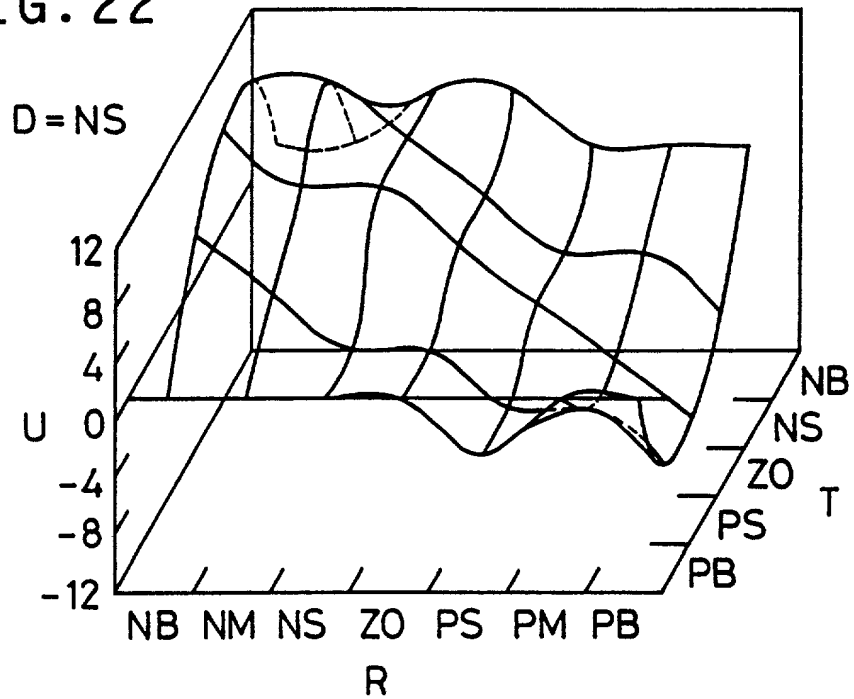


FIG. 22



	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528</
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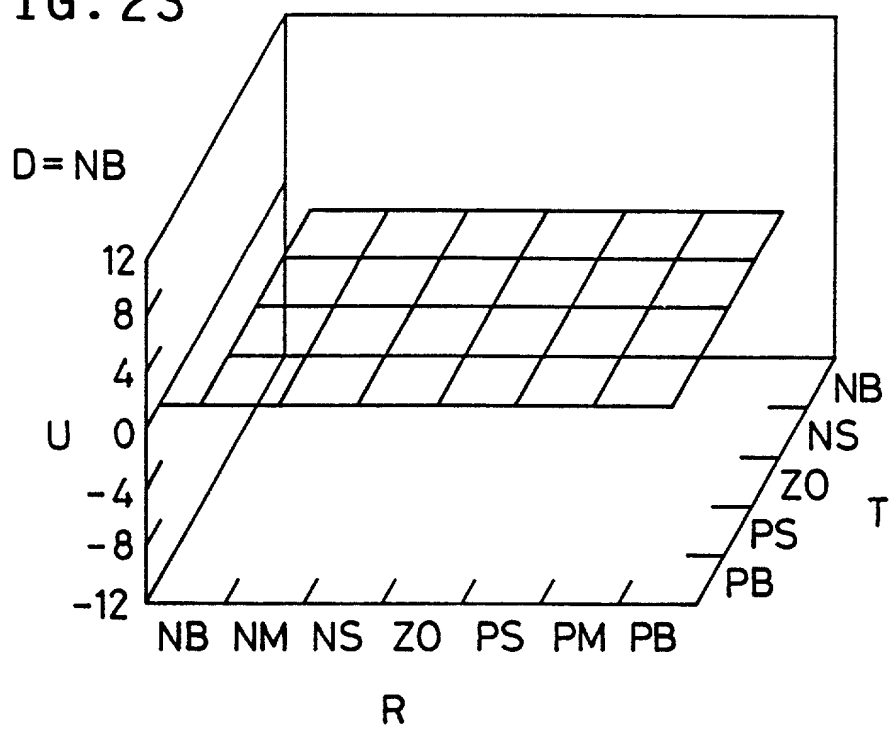


FIG. 24

AVERAGE = -5.147
ERROR = 1.055

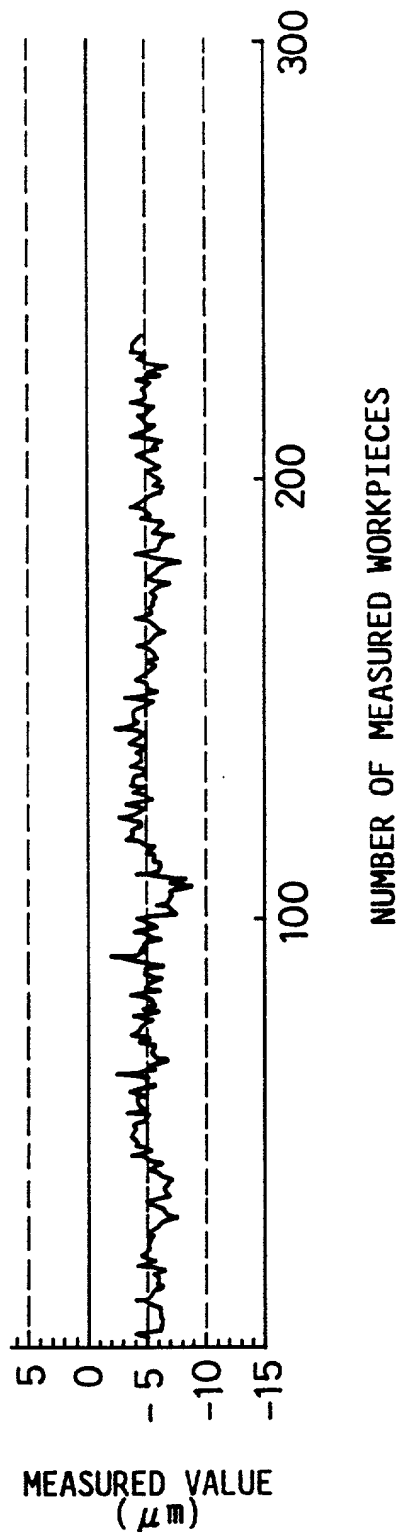
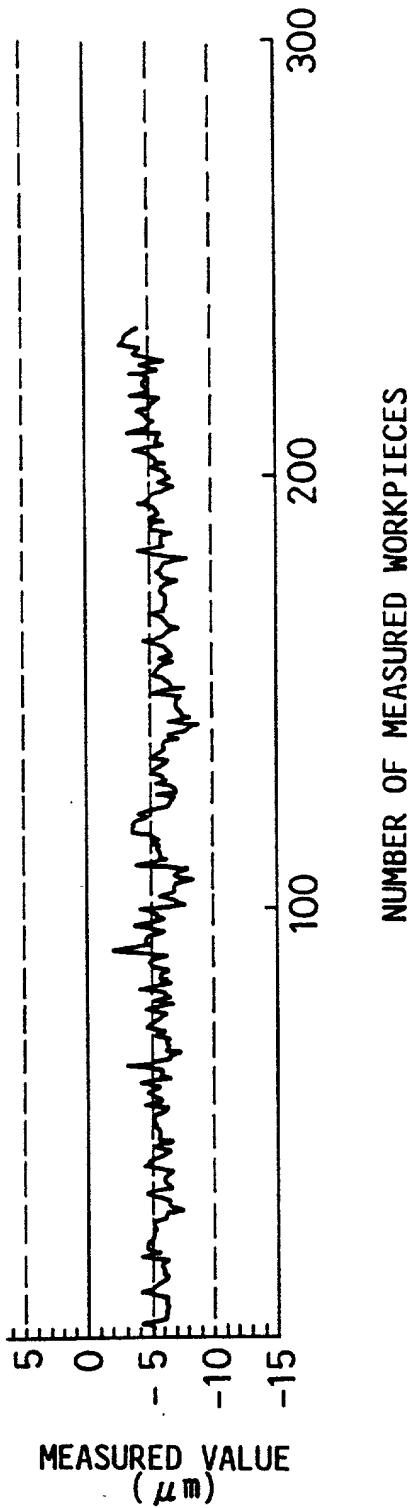


FIG. 25

AVERAGE = -5.753

ERROR = 1.055



AVERAGE = -8.378
 ERROR = 2.227

FIG. 26

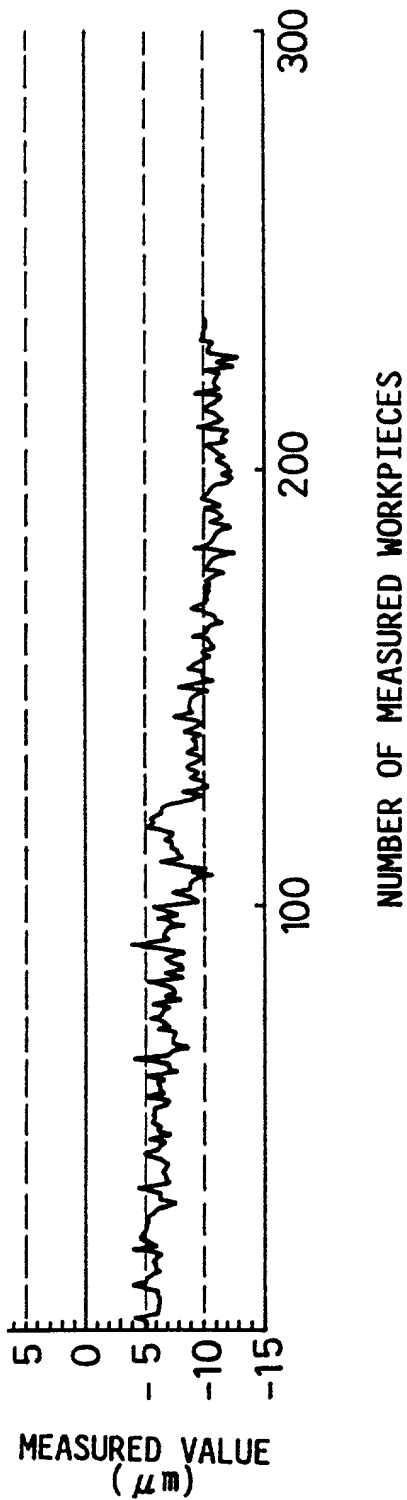
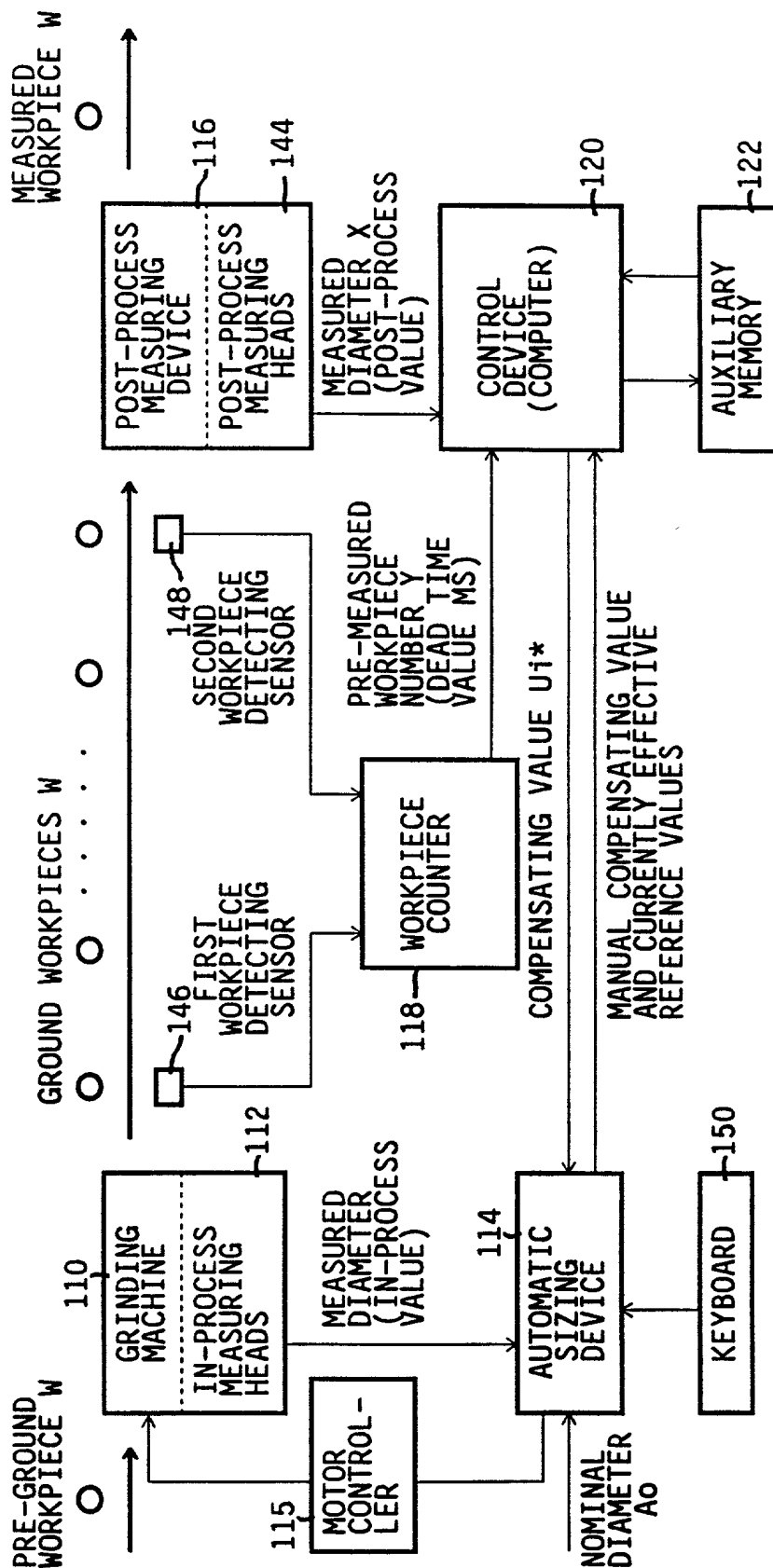


FIG. 27



09319070 010001

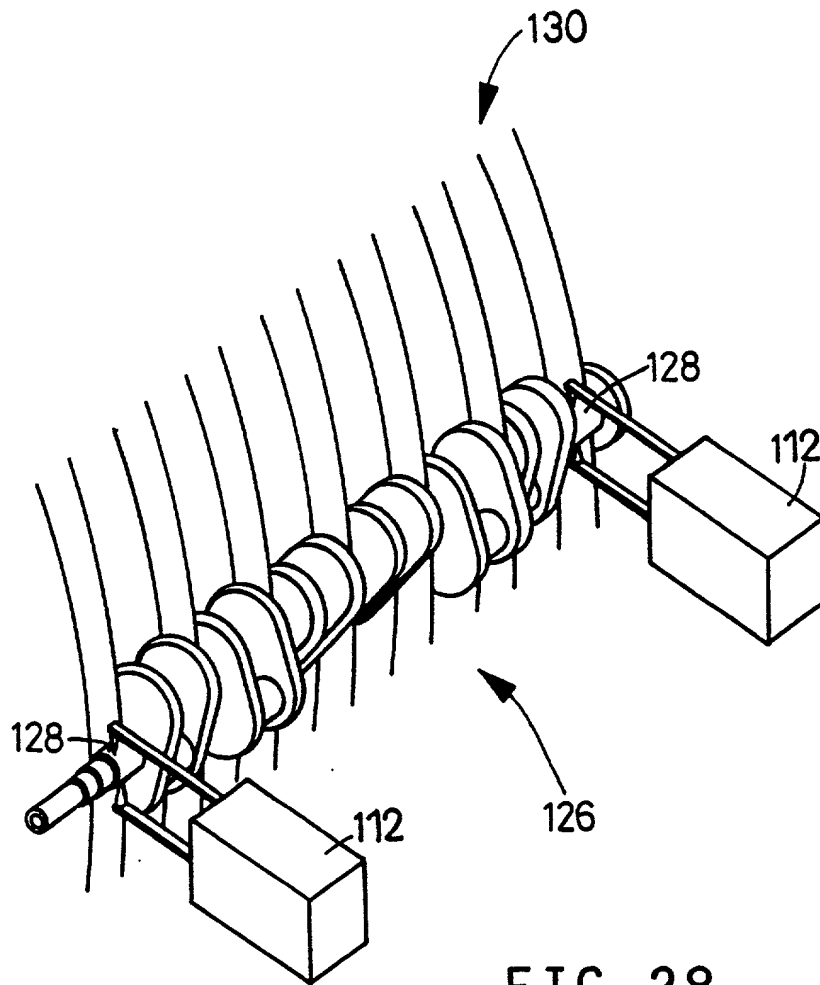


FIG. 28

FIG. 29

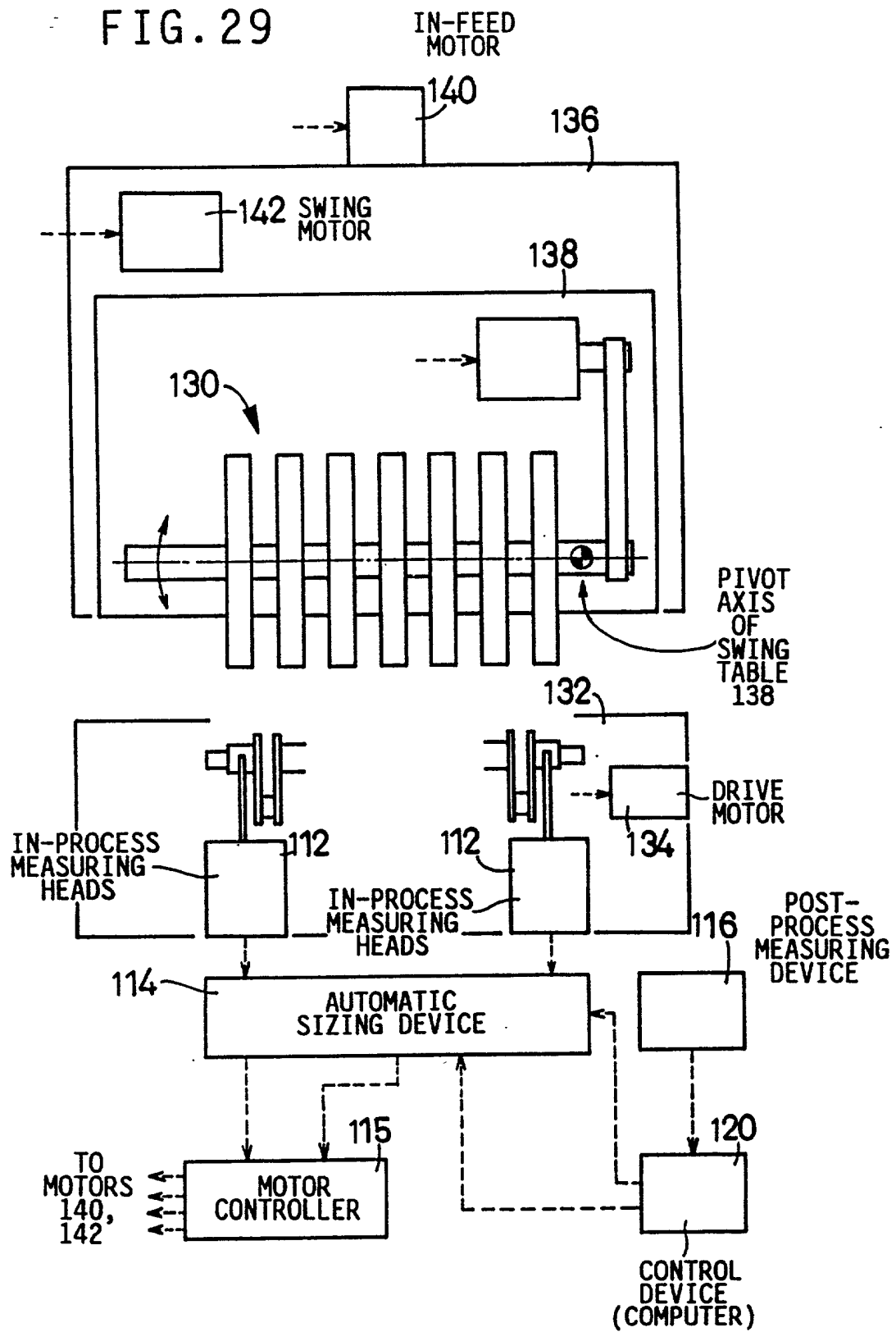


FIG. 30A

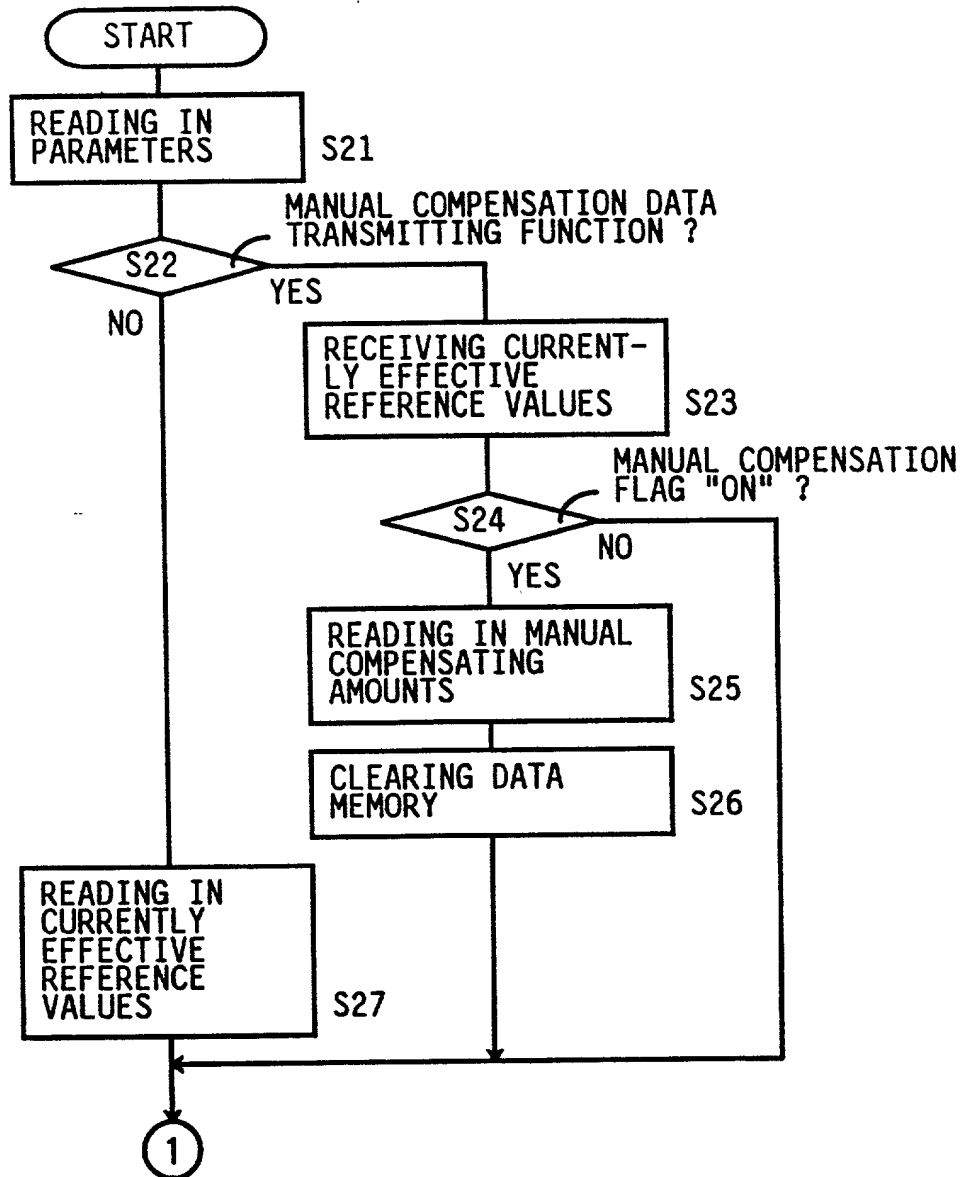


Figure 6. The effect of the number of iterations on the accuracy of the proposed algorithm. The figure shows two plots side-by-side. The left plot shows the accuracy of the proposed algorithm (in %) versus the number of iterations (from 0 to 100). The right plot shows the accuracy of the proposed algorithm (in %) versus the number of iterations (from 0 to 100).

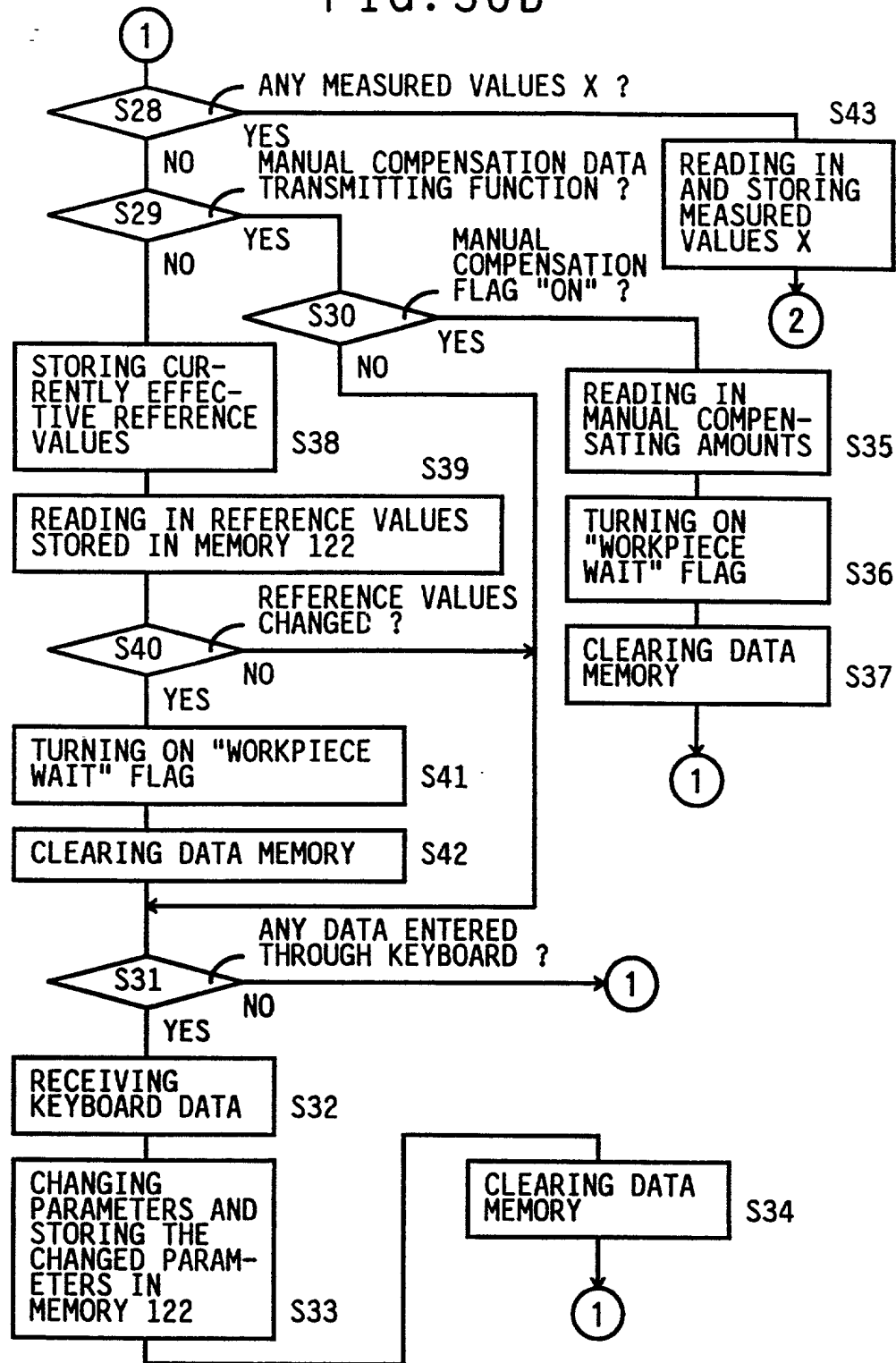


FIG. 31A

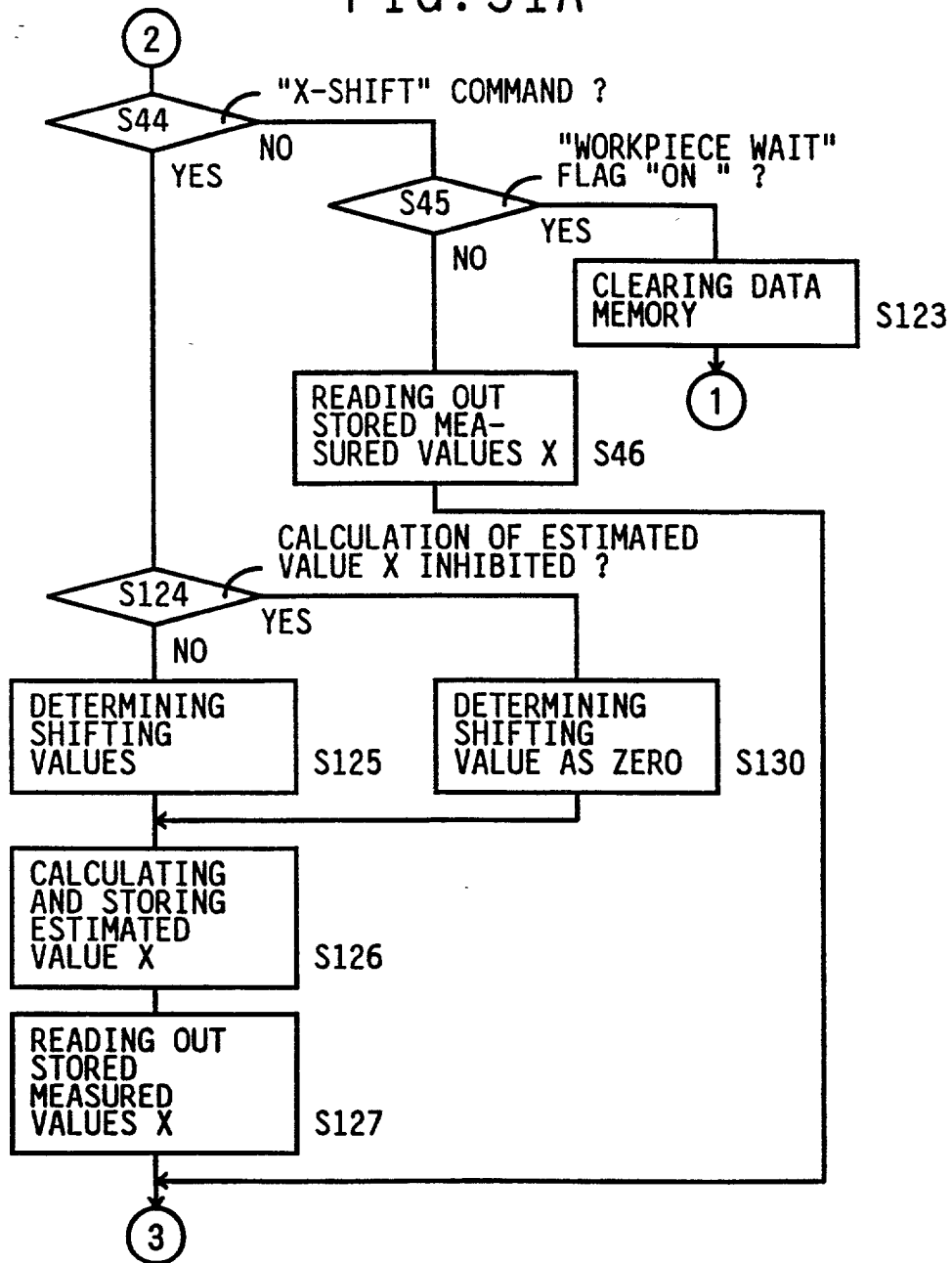


FIG. 31B

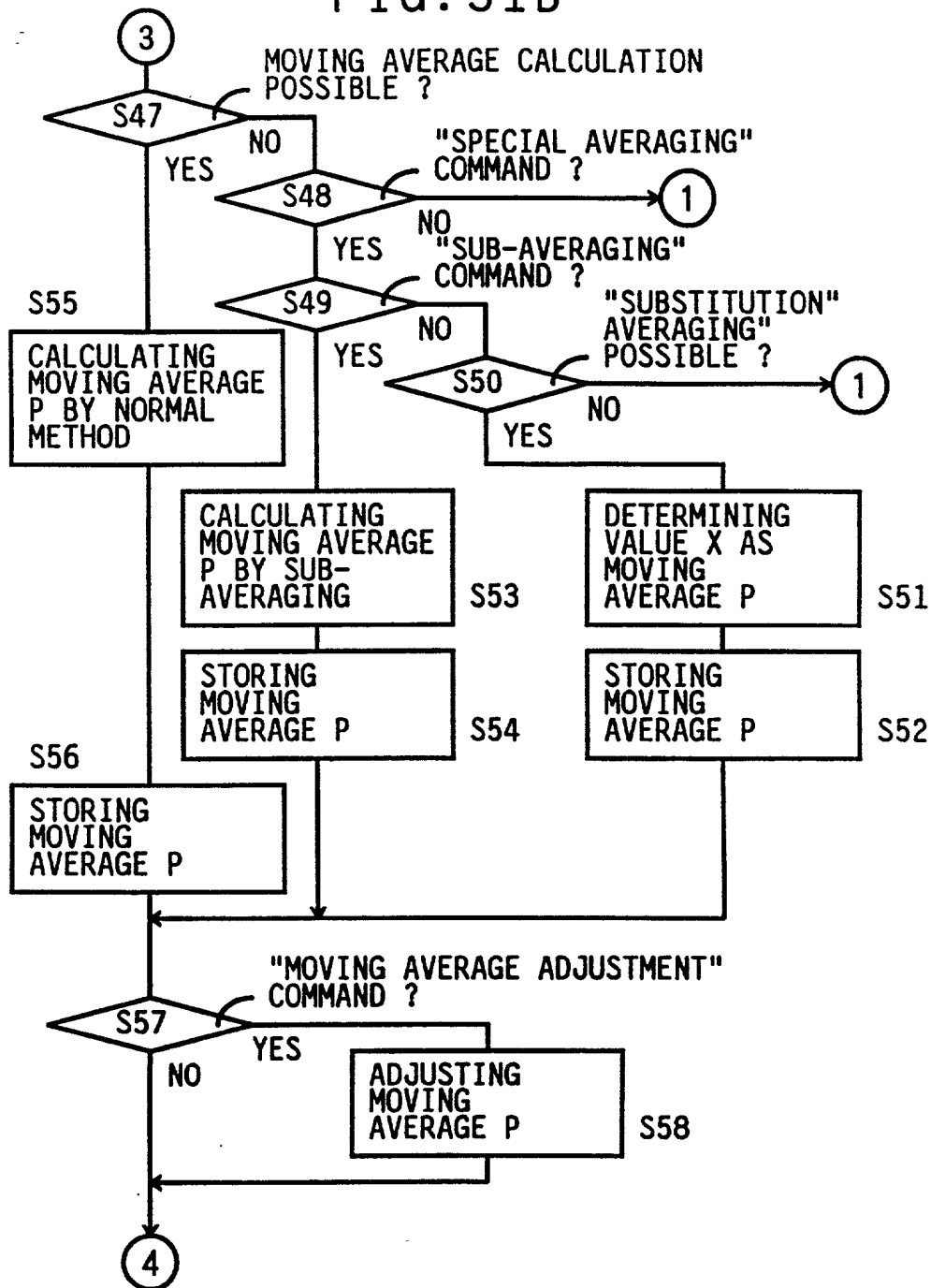


FIG. 32A

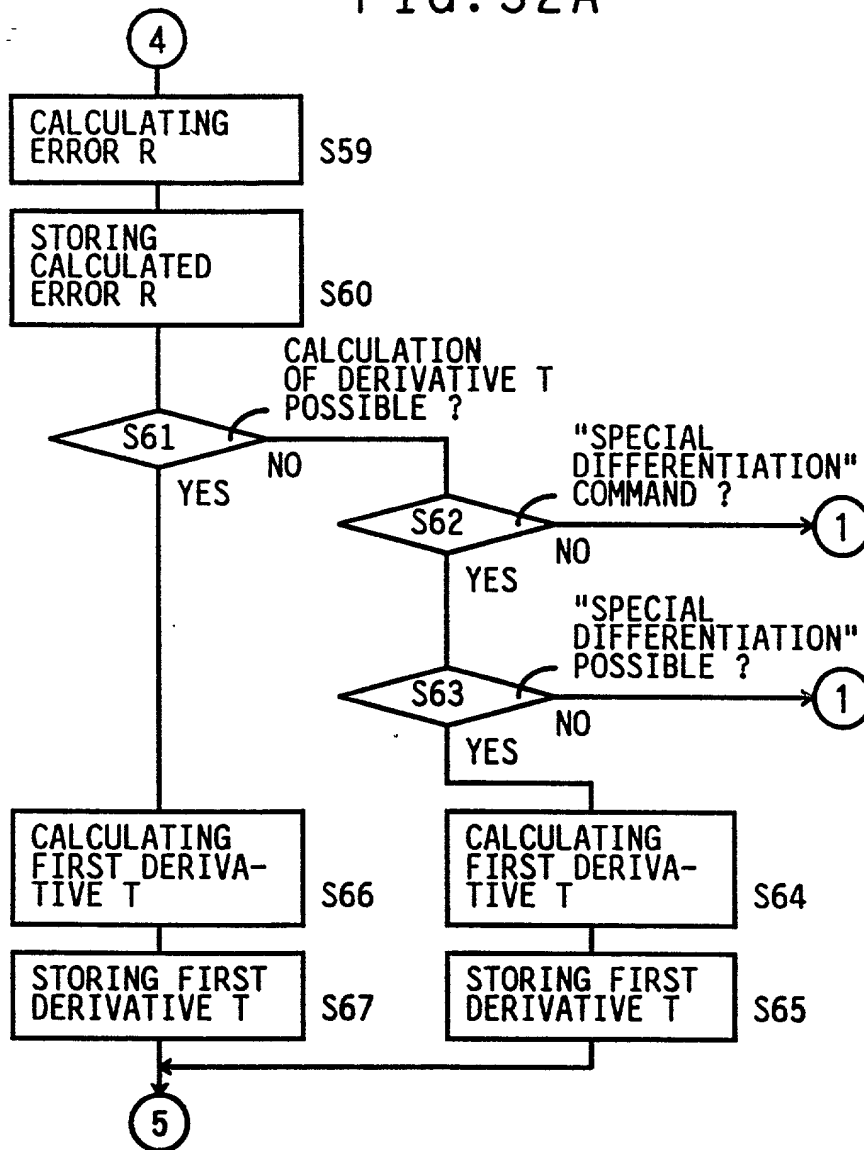


FIG. 32B

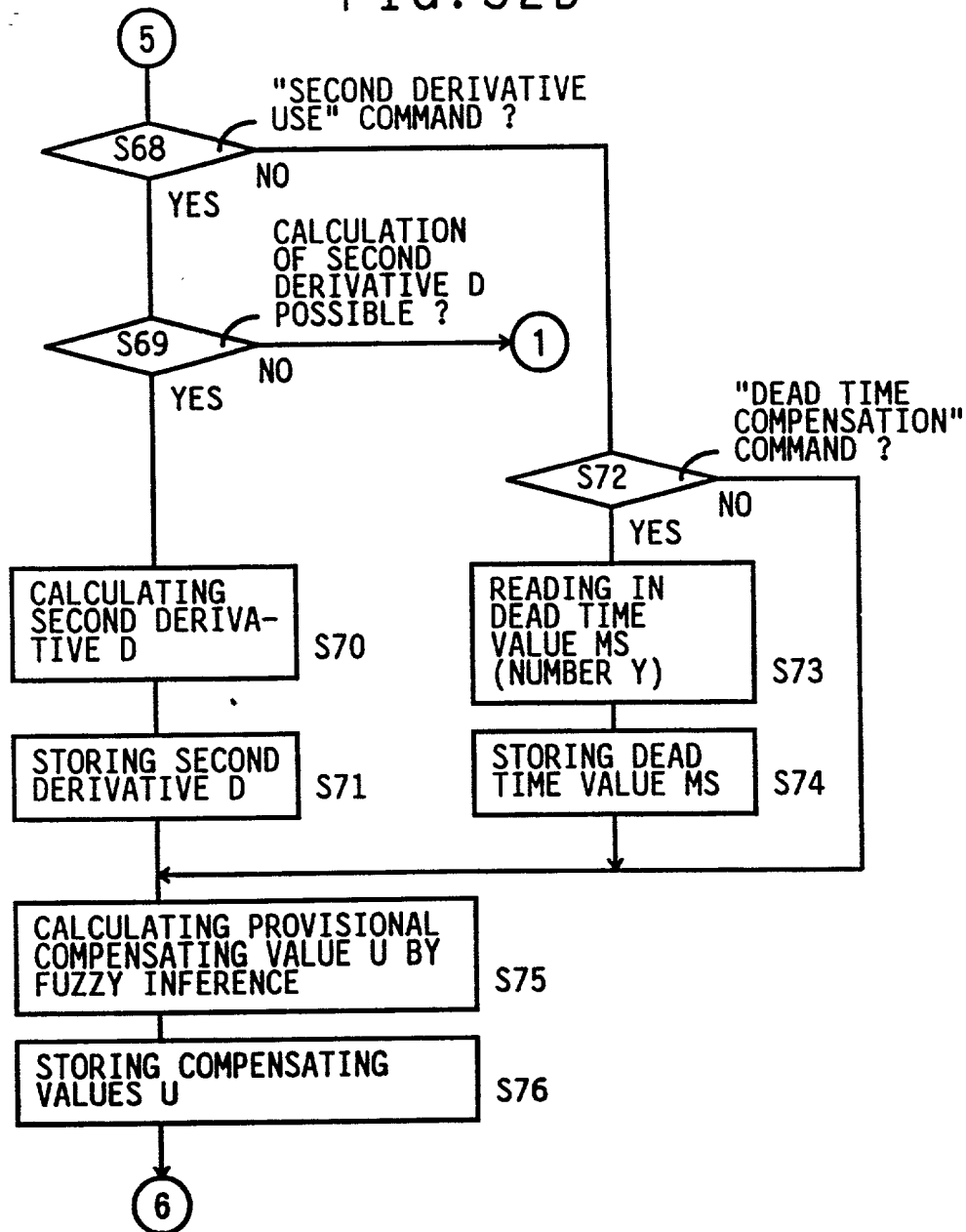


FIG. 33

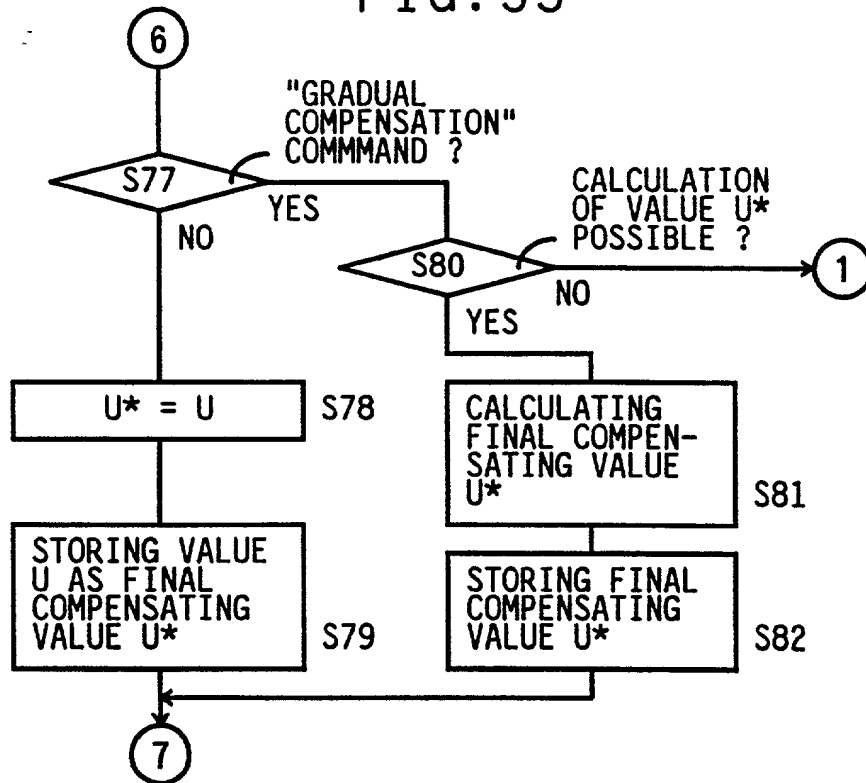


FIG. 34A

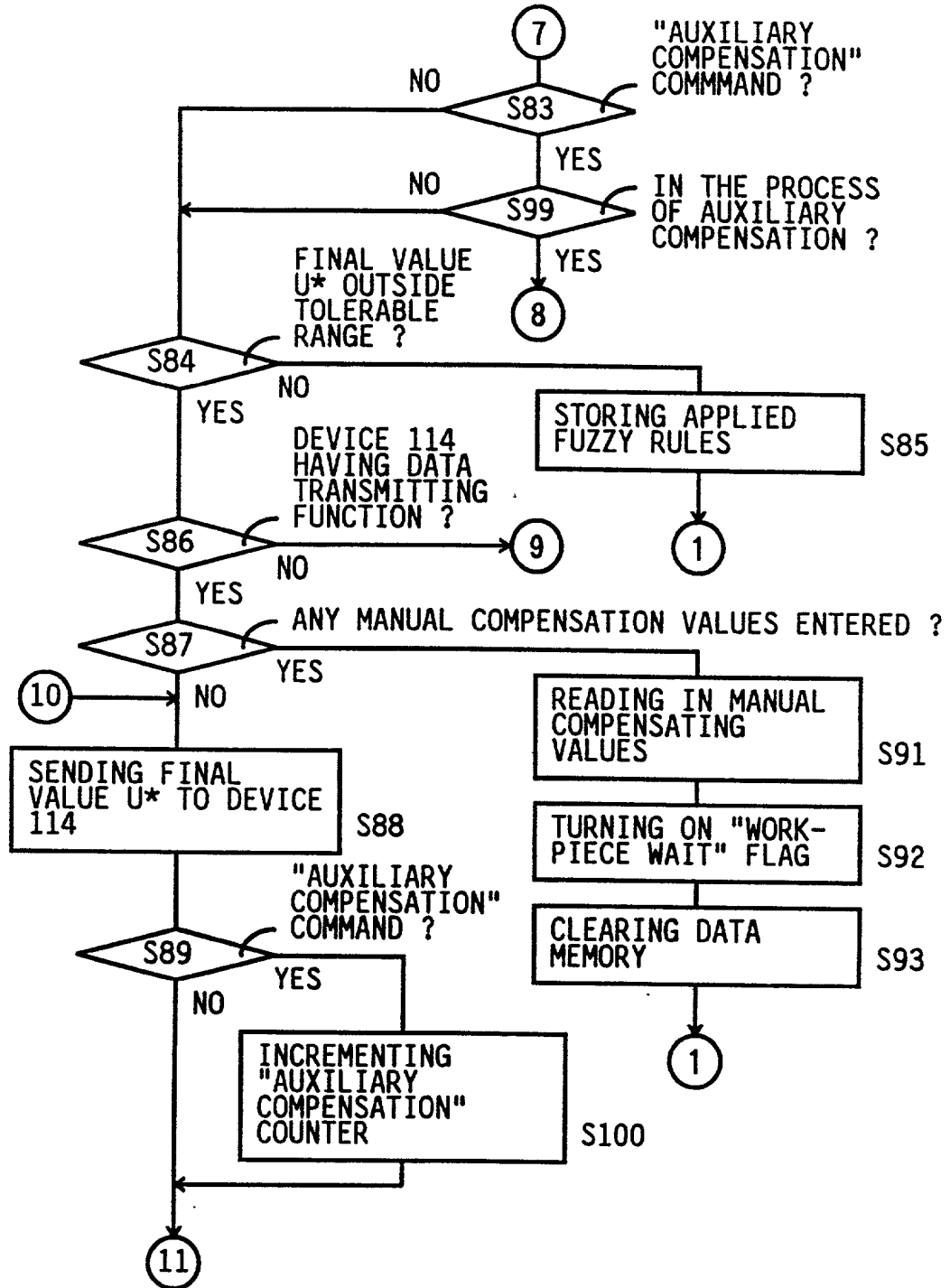
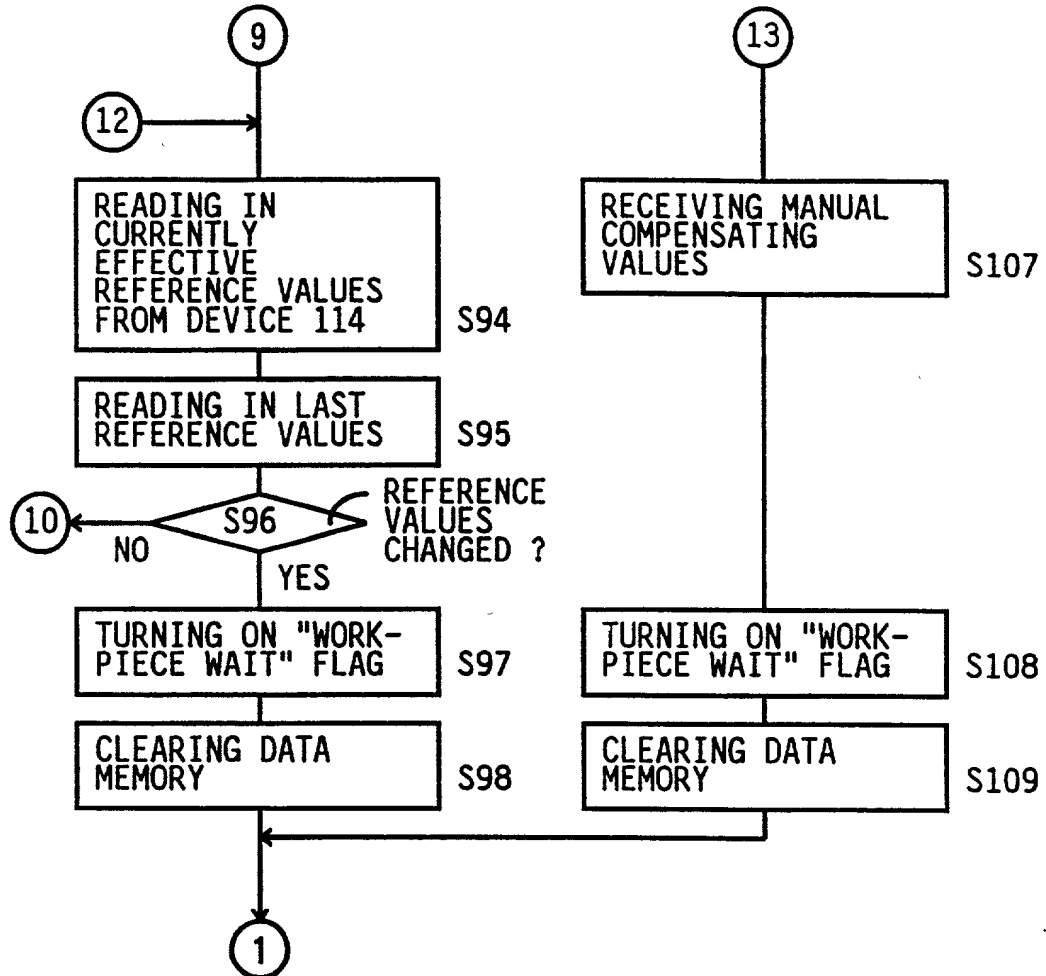


FIG. 34B



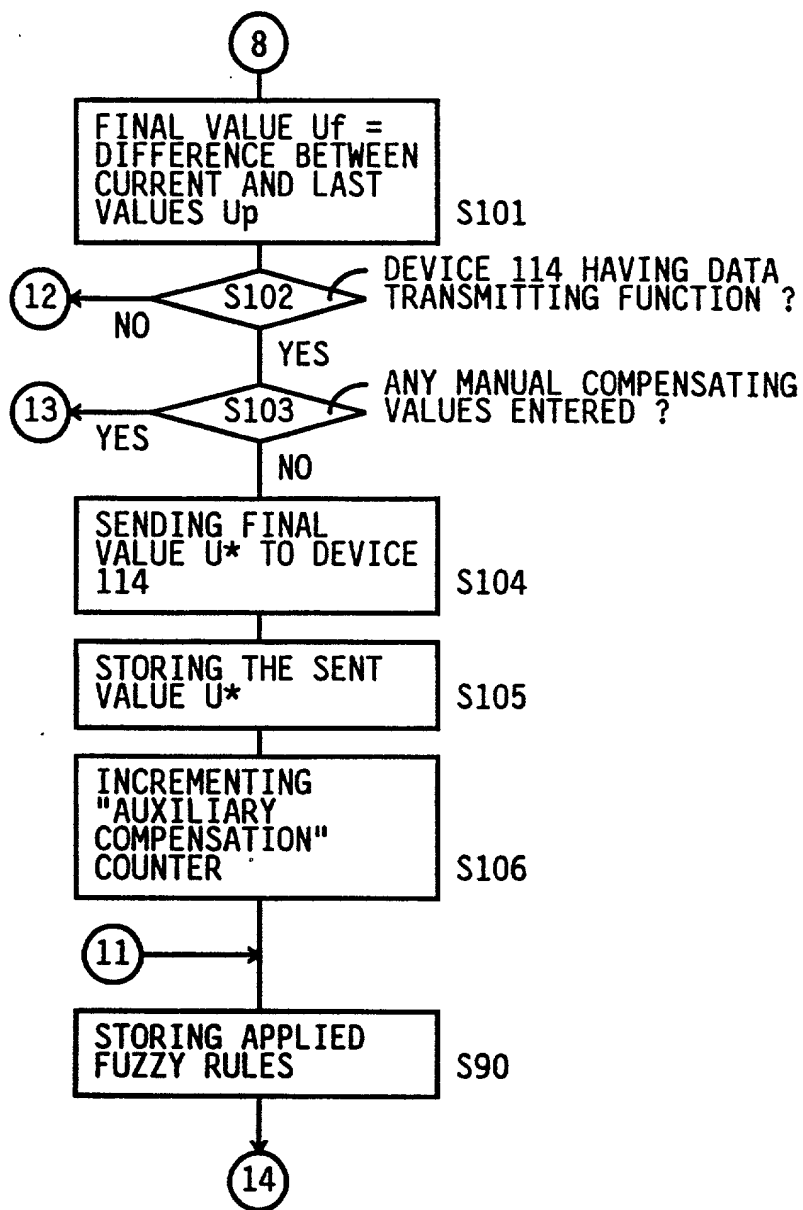
[illegible]

FIG. 35A

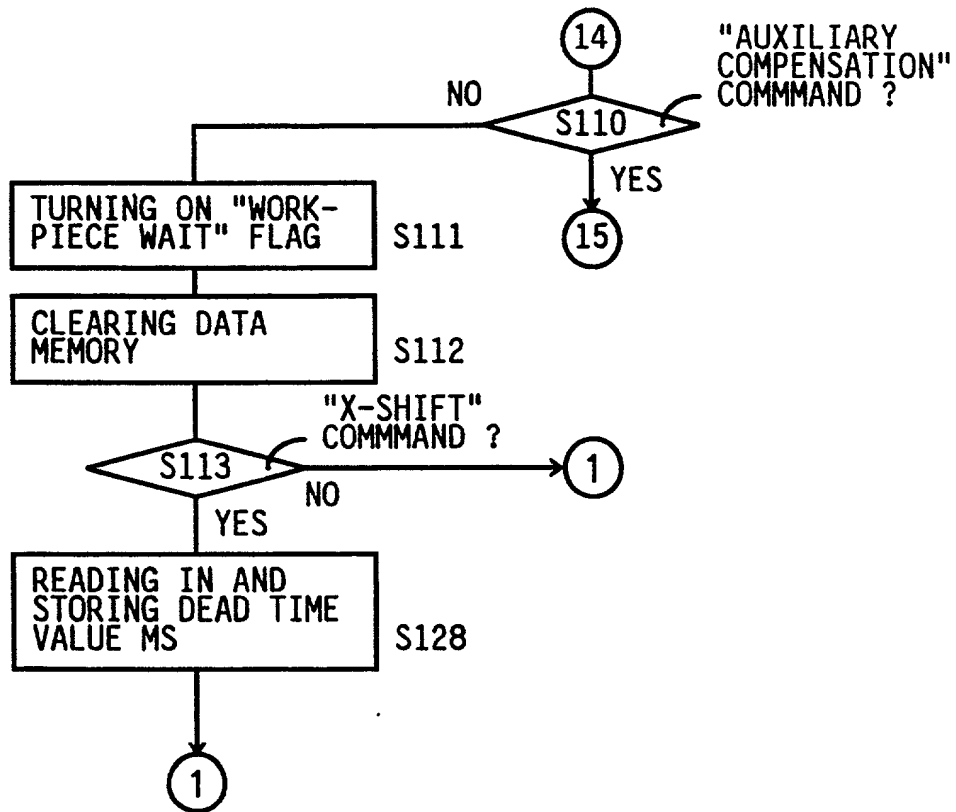


FIG. 35B

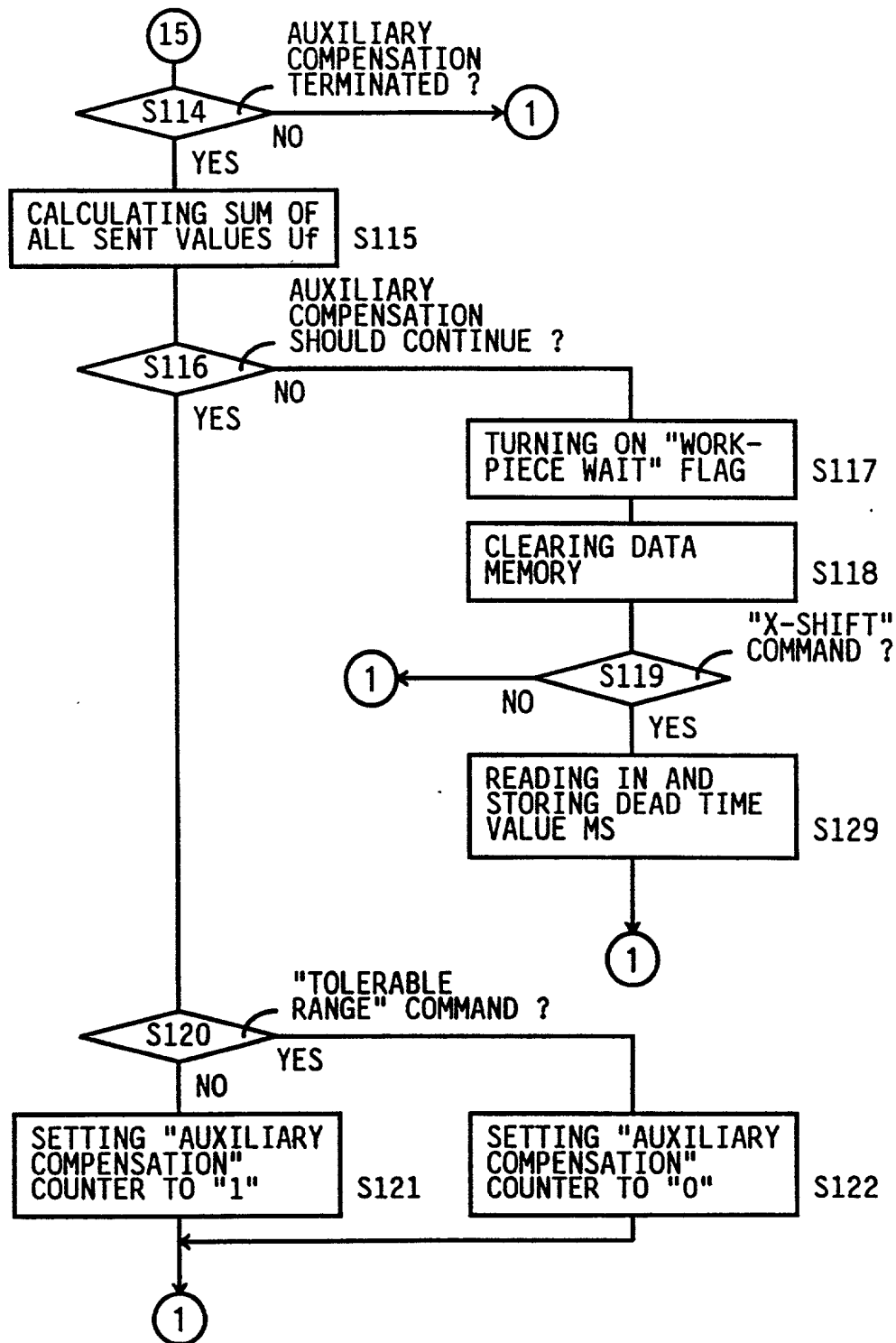


FIG. 36

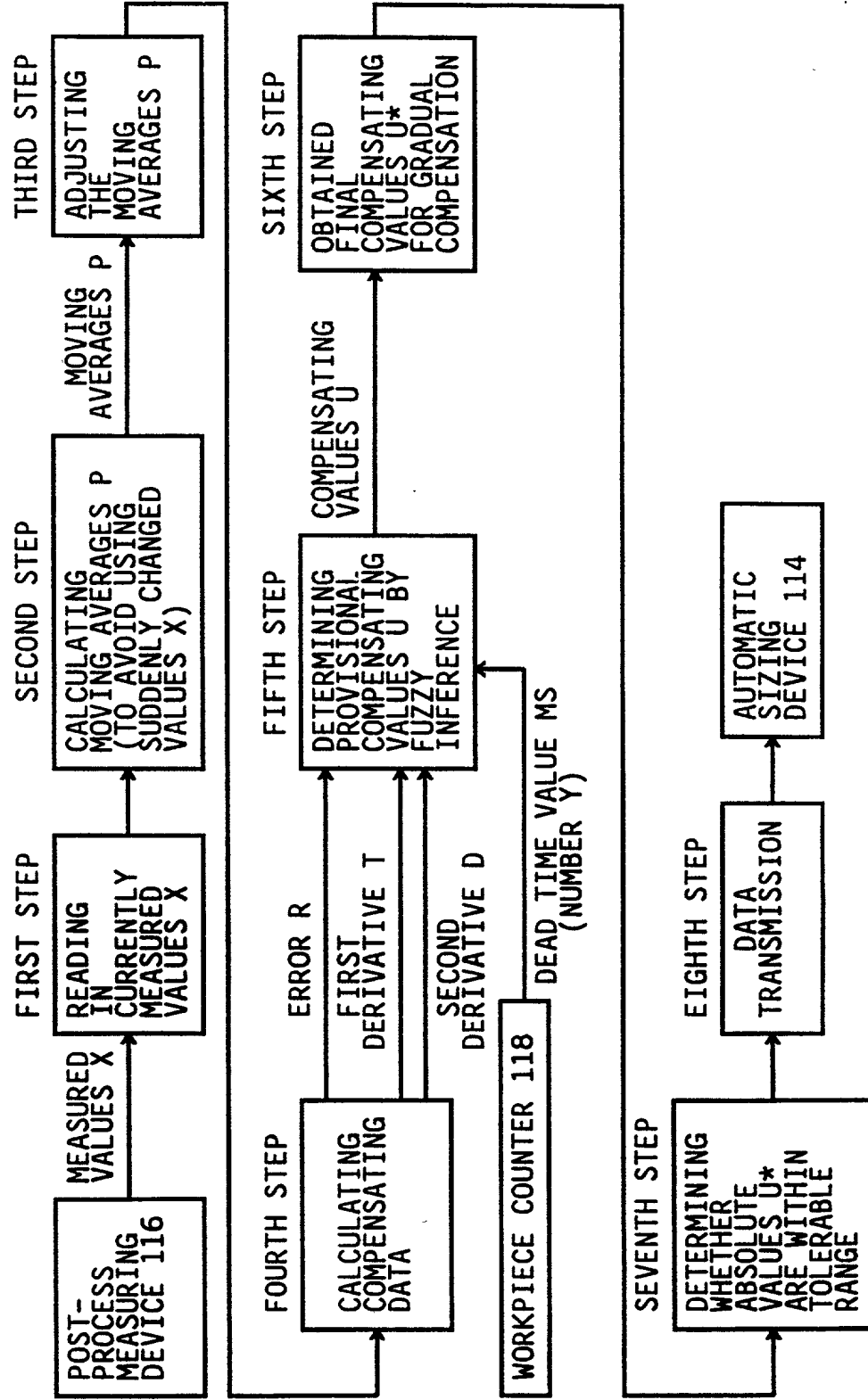
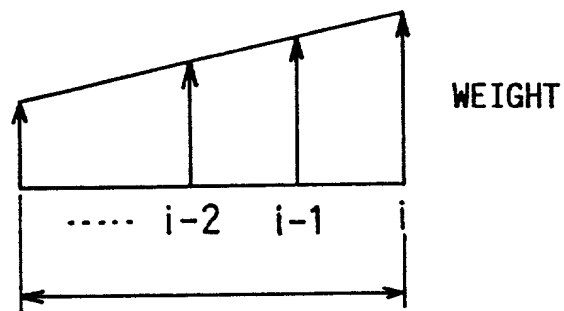
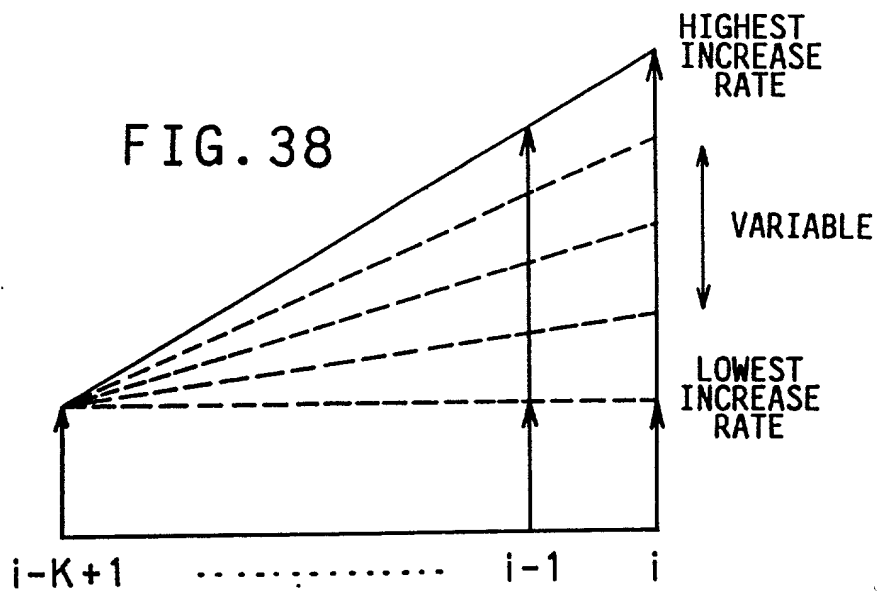


FIG. 37



K : NUMBER OF MEASURED VALUES
TO OBTAIN MOVING AVERAGE

FIG. 38



$$\left. \begin{array}{l} \text{---} \\ \text{---} \\ \text{---} \end{array} \right\}$$

DERIVATIVE
T

Diagram illustrating the relationship between sets K , L , and T :

- Set K contains elements X, X, X, X, X .
- Set L contains elements P, P, P, P, P .
- Set T contains element R .

Arrows indicate mappings:

- From K to L : Downward arrows from each X in K to each P in L .
- From L to T : Downward arrows from each P in L to R in T .

$$\left. \begin{array}{l} \text{---} \\ \text{---} \\ \text{---} \end{array} \right\}$$

DERIVATIVE
T

[illegible][illegible]

$$\left. \begin{array}{l} \text{---} \\ \text{---} \\ \text{---} \end{array} \right\}$$
$$\underbrace{X \quad X \quad X \quad X \quad X}_{\text{five } X's}$$
$$\begin{array}{ccccc} & & K & & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ P_1 & P_2 & P_3 & P_4 & P_i \end{array}$$

↓ ↓ ↓ ↓ ↓
R R R R R

L ↓ T

[illegible]

FIG. 42

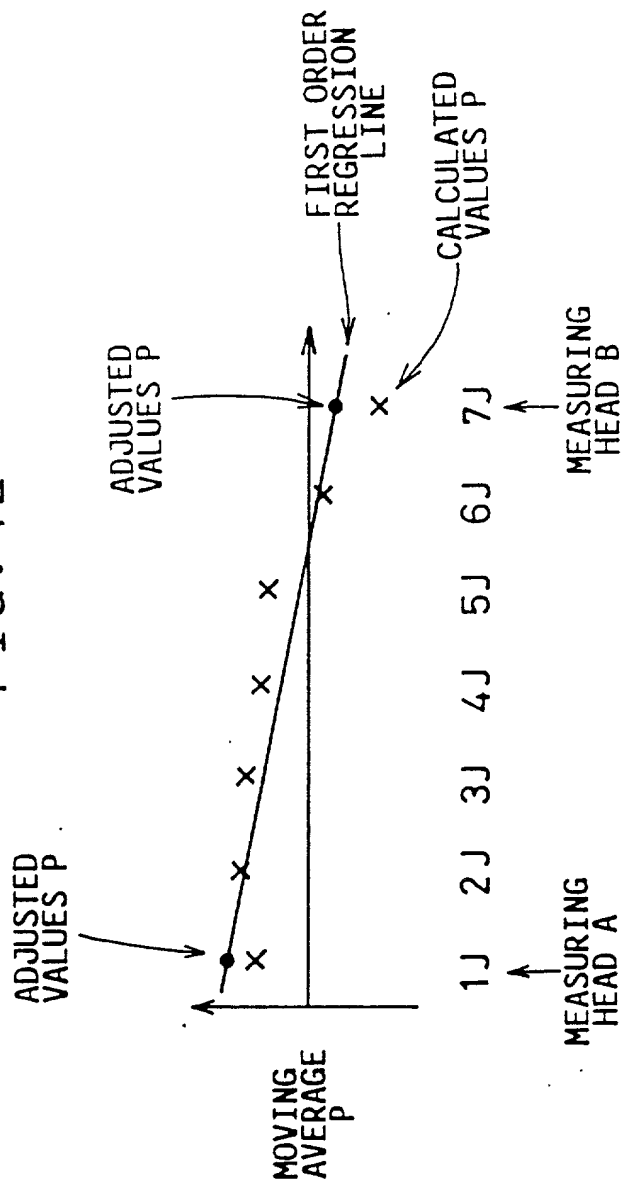


FIG. 43

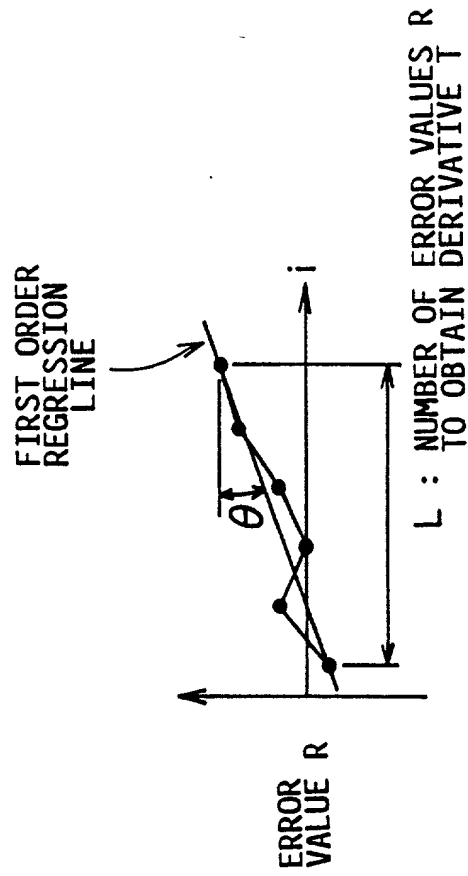


FIG. 44

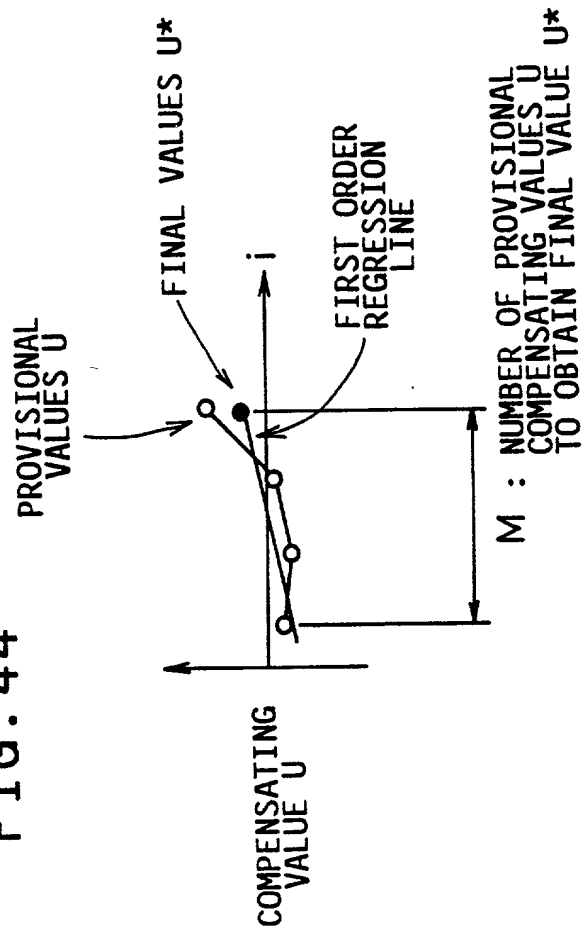


FIG. 45

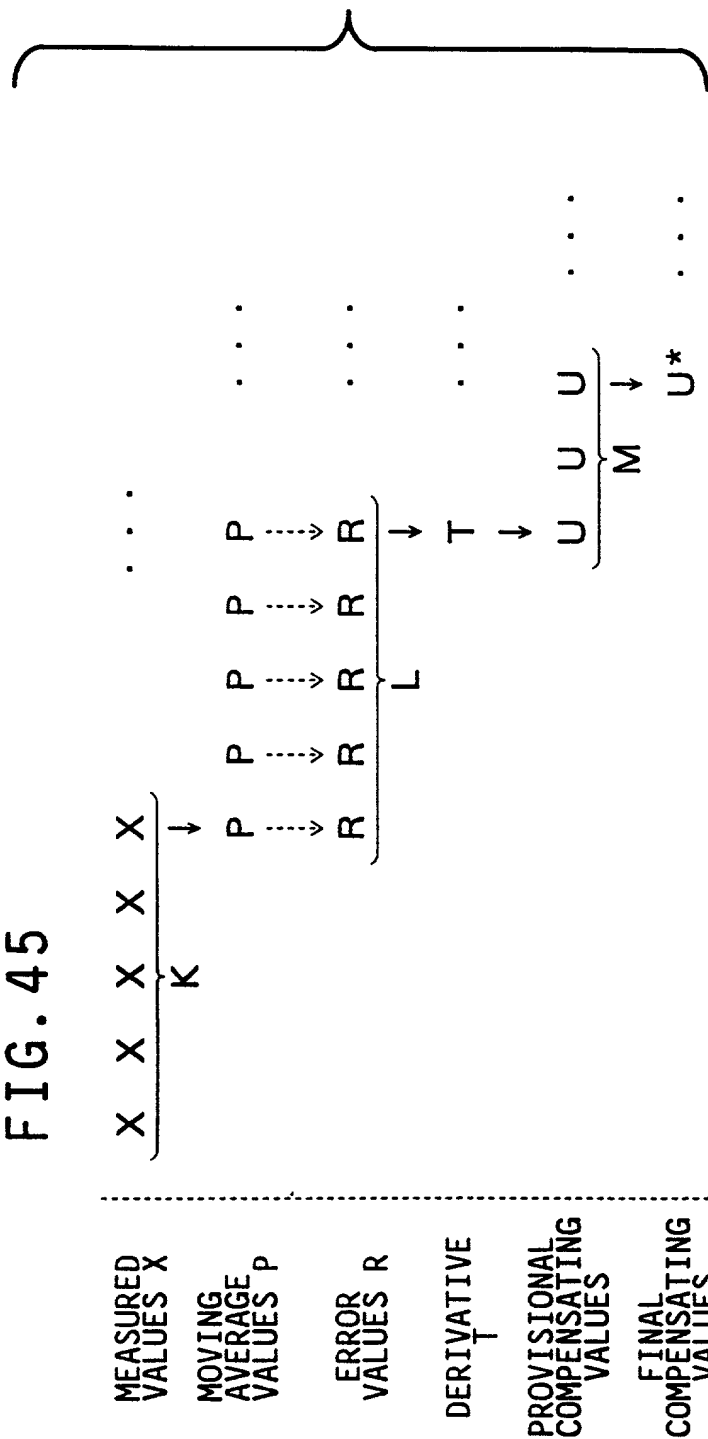


FIG. 46

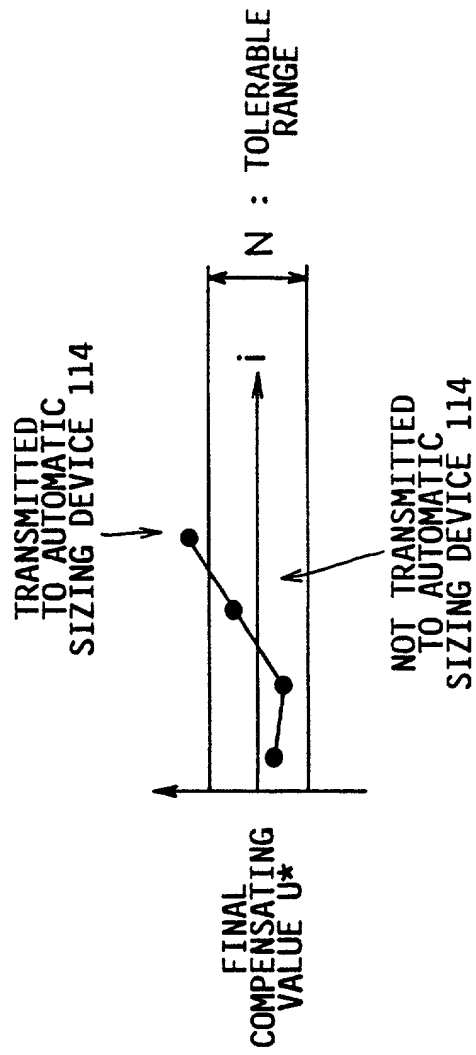


FIG. 47

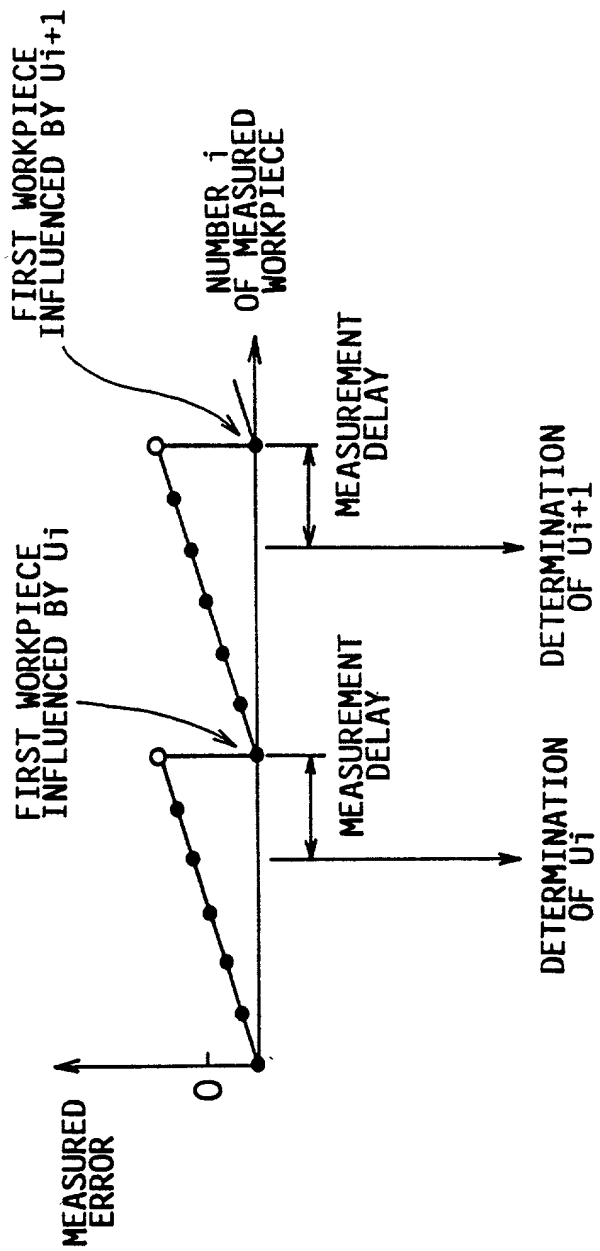


FIG. 48

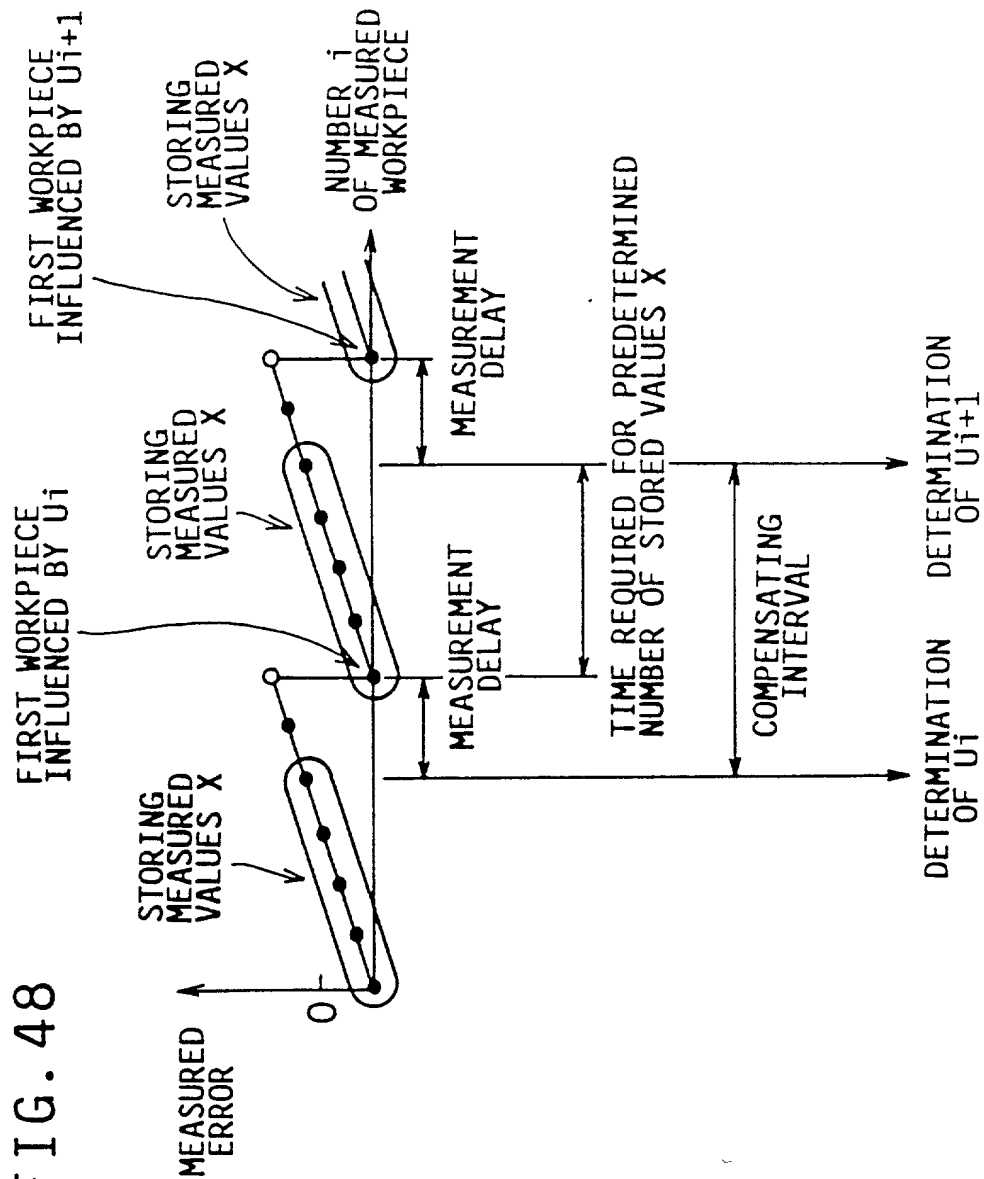


FIG. 49

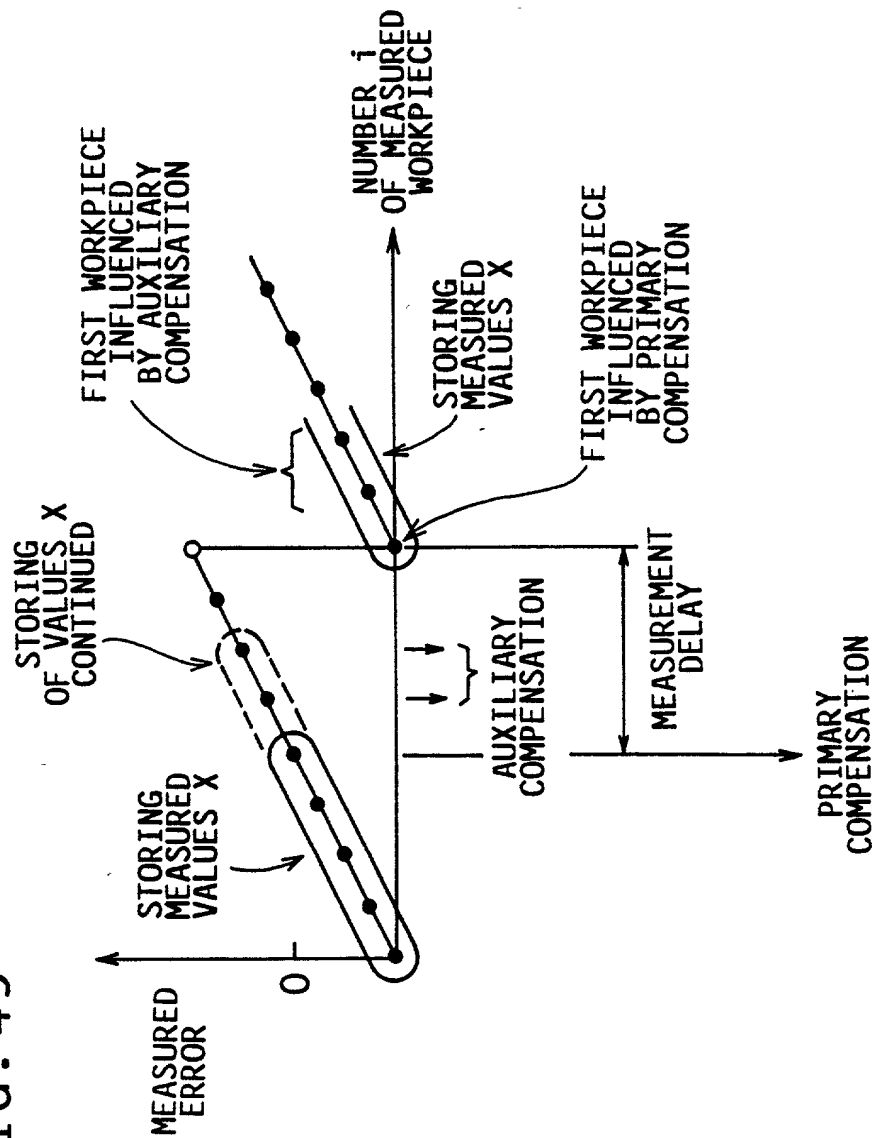
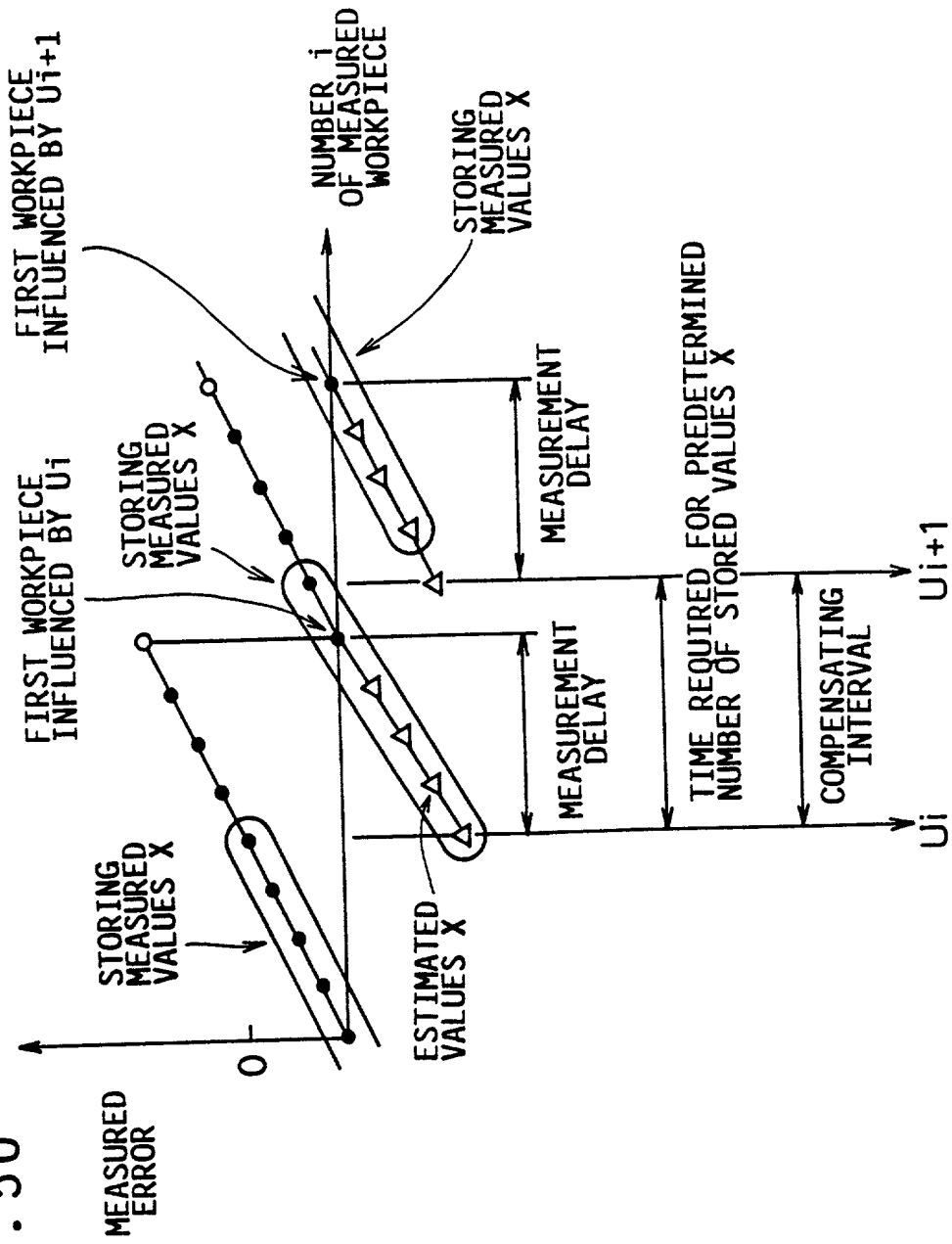


FIG. 50



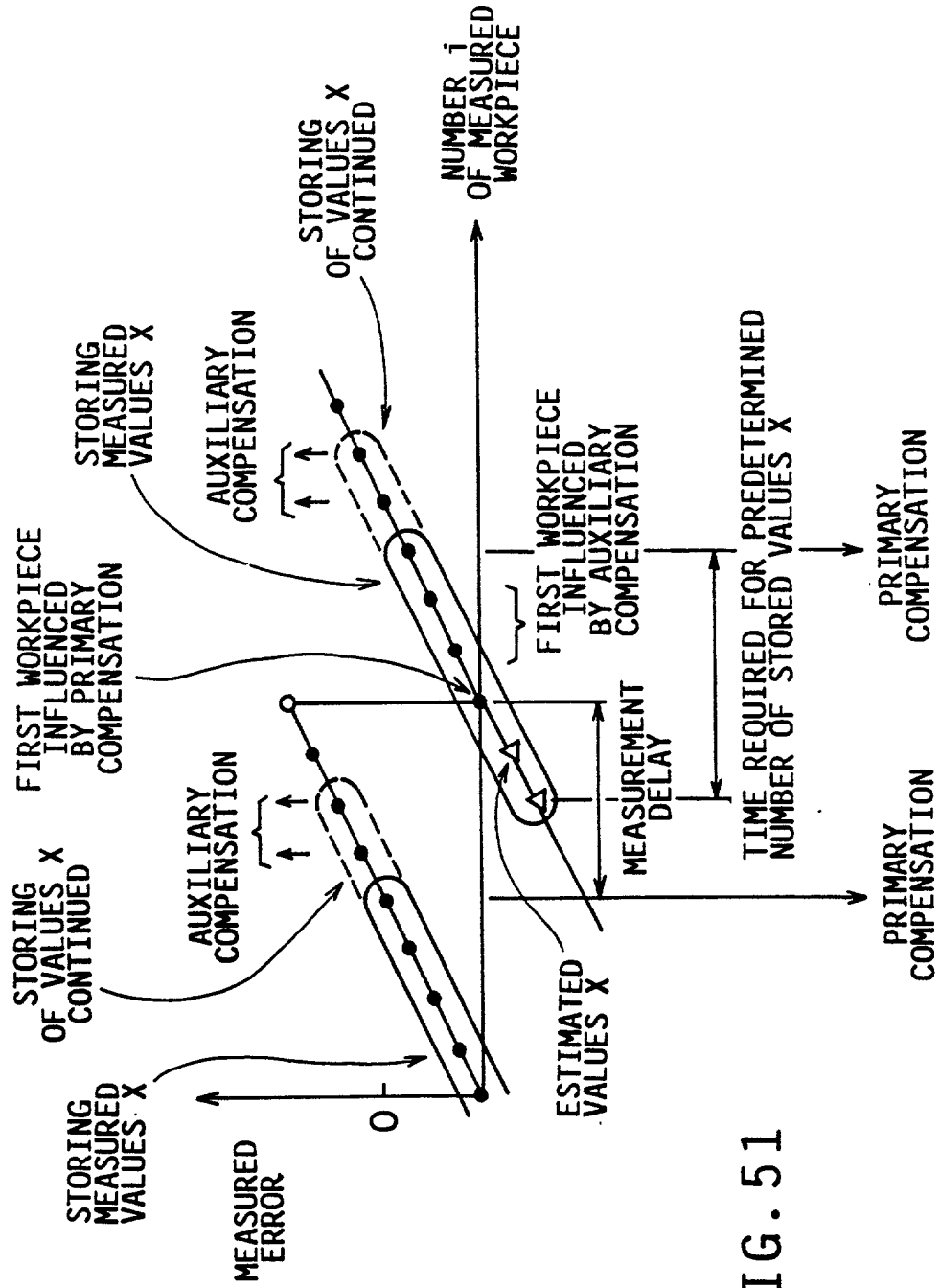


FIG. 51

Figure 1 shows the results of the first two steps of the analysis. The first step was to identify the variables that were significantly associated with the outcome variable, *perceived stress*. The second step was to identify the variables that were significantly associated with the outcome variable, *perceived stress*, after controlling for the variables identified in the first step. The results of the first step are shown in Table 1. The results of the second step are shown in Table 2. The results of the third step are shown in Table 3. The results of the fourth step are shown in Table 4. The results of the fifth step are shown in Table 5. The results of the sixth step are shown in Table 6. The results of the seventh step are shown in Table 7. The results of the eighth step are shown in Table 8. The results of the ninth step are shown in Table 9. The results of the tenth step are shown in Table 10. The results of the eleventh step are shown in Table 11. The results of the twelfth step are shown in Table 12. The results of the thirteenth step are shown in Table 13. The results of the fourteenth step are shown in Table 14. The results of the fifteenth step are shown in Table 15. The results of the sixteenth step are shown in Table 16. The results of the seventeenth step are shown in Table 17. The results of the eighteenth step are shown in Table 18. The results of the nineteenth step are shown in Table 19. The results of the twentieth step are shown in Table 20. The results of the twenty-first step are shown in Table 21. The results of the twenty-second step are shown in Table 22. The results of the twenty-third step are shown in Table 23. The results of the twenty-fourth step are shown in Table 24. The results of the twenty-fifth step are shown in Table 25. The results of the twenty-sixth step are shown in Table 26. The results of the twenty-seventh step are shown in Table 27. The results of the twenty-eighth step are shown in Table 28. The results of the twenty-ninth step are shown in Table 29. The results of the thirtieth step are shown in Table 30. The results of the thirty-first step are shown in Table 31. The results of the thirty-second step are shown in Table 32. The results of the thirty-third step are shown in Table 33. The results of the thirty-fourth step are shown in Table 34. The results of the thirty-fifth step are shown in Table 35. The results of the thirty-sixth step are shown in Table 36. The results of the thirty-seventh step are shown in Table 37. The results of the thirty-eighth step are shown in Table 38. The results of the thirty-ninth step are shown in Table 39. The results of the fortieth step are shown in Table 40. The results of the forty-first step are shown in Table 41. The results of the forty-second step are shown in Table 42. The results of the forty-third step are shown in Table 43. The results of the forty-fourth step are shown in Table 44. The results of the forty-fifth step are shown in Table 45. The results of the forty-sixth step are shown in Table 46. The results of the forty-seventh step are shown in Table 47. The results of the forty-eighth step are shown in Table 48. The results of the forty-ninth step are shown in Table 49. The results of the fiftieth step are shown in Table 50. The results of the fifty-first step are shown in Table 51. The results of the fifty-second step are shown in Table 52. The results of the fifty-third step are shown in Table 53. The results of the fifty-fourth step are shown in Table 54. The results of the fifty-fifth step are shown in Table 55. The results of the fifty-sixth step are shown in Table 56. The results of the fifty-seventh step are shown in Table 57. The results of the fifty-eighth step are shown in Table 58. The results of the fifty-ninth step are shown in Table 59. The results of the sixtieth step are shown in Table 60. The results of the sixty-first step are shown in Table 61. The results of the sixty-second step are shown in Table 62. The results of the sixty-third step are shown in Table 63. The results of the sixty-fourth step are shown in Table 64. The results of the sixty-fifth step are shown in Table 65. The results of the sixty-sixth step are shown in Table 66. The results of the sixty-seventh step are shown in Table 67. The results of the sixty-eighth step are shown in Table 68. The results of the sixty-ninth step are shown in Table 69. The results of the seventieth step are shown in Table 70. The results of the seventy-first step are shown in Table 71. The results of the seventy-second step are shown in Table 72. The results of the seventy-third step are shown in Table 73. The results of the seventy-fourth step are shown in Table 74. The results of the seventy-fifth step are shown in Table 75. The results of the seventy-sixth step are shown in Table 76. The results of the seventy-seventh step are shown in Table 77. The results of the seventy-eighth step are shown in Table 78. The results of the seventy-ninth step are shown in Table 79. The results of the eightieth step are shown in Table 80. The results of the eighty-first step are shown in Table 81. The results of the eighty-second step are shown in Table 82. The results of the eighty-third step are shown in Table 83. The results of the eighty-fourth step are shown in Table 84. The results of the eighty-fifth step are shown in Table 85. The results of the eighty-sixth step are shown in Table 86. The results of the eighty-seventh step are shown in Table 87. The results of the eighty-eighth step are shown in Table 88. The results of the eighty-ninth step are shown in Table 89. The results of the ninetieth step are shown in Table 90. The results of the ninety-first step are shown in Table 91. The results of the ninety-second step are shown in Table 92. The results of the ninety-third step are shown in Table 93. The results of the ninety-fourth step are shown in Table 94. The results of the ninety-fifth step are shown in Table 95. The results of the ninety-sixth step are shown in Table 96. The results of the ninety-seventh step are shown in Table 97. The results of the ninety-eighth step are shown in Table 98. The results of the ninety-ninth step are shown in Table 99. The results of the one hundredth step are shown in Table 100.

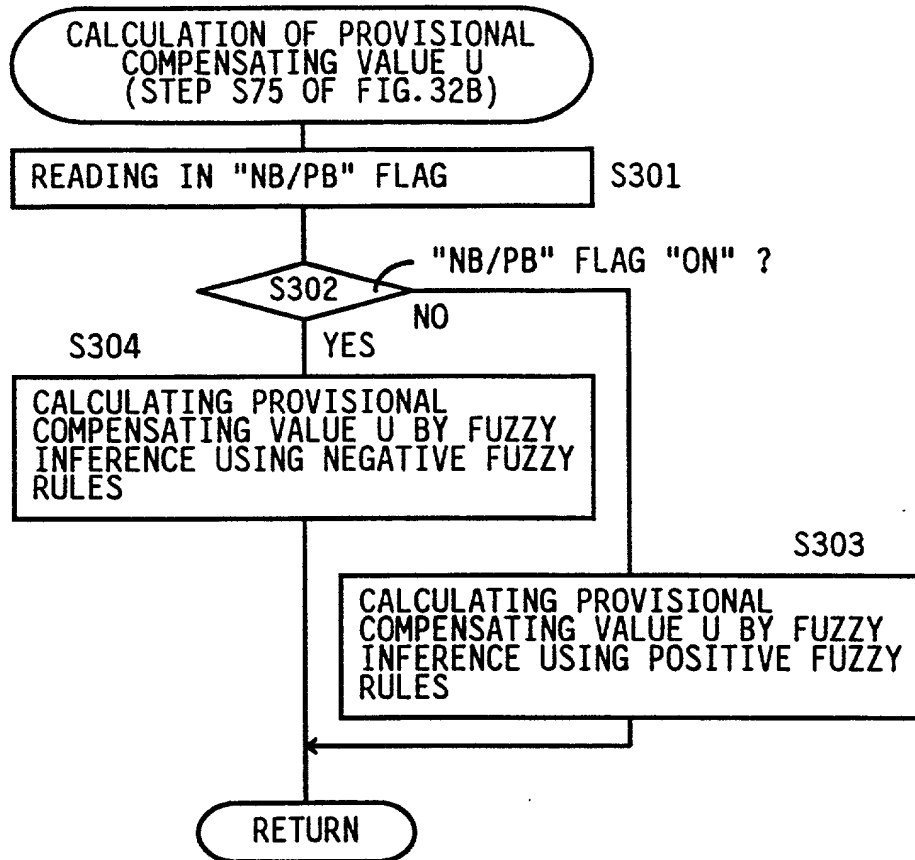


FIG. 54

